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DEPARTMENT OF THE NAVY **FOR FISCAL YEAR 1987** JUSTIFICATION

OF ESTIMATES



SUBMITTED TO CONGRESS FEBRUARY 1986



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OTHER PROCUREMENT, NAVY

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SECURITY CLASSIFICATION OF THIS PAGE	, .	AD-A	1645	29	
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THIS VOLUME CONTAIN	NS JUSTIFICATI	ON MATERIA	L SUPPOR	TING THE	
PRESIDENT'S FISCAL YEAR	1987 BUDGET P	RESENTATIO	N TO CON	GRESS.	
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Department of the Navy Other Procurement, Navy

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Justification of Estimates for Fiscal Year 1987

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Program and Financing Summary

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Justification

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By Distribution/

Activity Budget

Aviation Support Equipment, Ordnance Support Equipment, (Civil Engineering Support Equipment, Activity Activity Budget

Personnel and Command Support Equipment Supply Support Equipment Activity Budget Budget

Spares and Repair Parts, Activity

Comparison of Program Requirements

Exhibit 32C:









Availability Codes

Aveil and/or Special

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Other Procurement, Navy

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Spares and repair parts, \$279,838,000; Non-centrally managed items, \$125,300,000. In ail: \$6,377,630,000]; \$6,538,800,000, to remain available for obligation until September 30, [1988: Provided, that within the total amount appropriated, the subdivisions within this appropriation shall be reduced by \$256,000,000] 1989 for procurement, production, and modernization of support equipment and materials not otherwise provided equipment, \$1,133,019,000; Ordnance support equipment, \$1,349,747,000; Civil engineering support equipment, \$232.558.000; Supply support equipment, \$434,143,000 such lands and interests therein, may be acquired and construction prosecuted thereon prior to approval of passenger motor vehicles of which [eight hundred and twenty-five] eight hundred and twenty-three shall be title; and procurement and installation of equipment, appliances, and machine tools in public and private for. Navy ordnance and ammunition (except ordnance for new aircraft, new ships, and ships authorized for or replacement only; expansion of public and private plants, including the land necessary therefor, and plants; reserve plant and Government and contractor-owned equipment layaway, [as follows: Ship support equipment, \$923,806,000; Communications and electronics equipment, \$2,096,302,000; Aviation support conversion); the purchase of not to exceed [nine hundred and twenty-four] nine hundred and elghty-four (10 U.S.C. 5012, 5031; Department of Defense Appropriation Act 1986, as included in Public Law 99-190; additional authorizing legislation to be proposed.) Other Procurement, Navy Program and Financing (in Thousands of dollars)

SUMMARY

6, 715, 436 -43, 500 -4, 900 -3, 000 6, 664, 036, 8, 320, 498 10, 402, 655 979, 365 1, 262, 475 261, 316 70, 441 526, 426 319, 107 51,400 -2, 544, 542 6, 538, 800 6, 538, 800 2, 419, 304 6, 538, 600 6, 664, 038 1987 est. 6,008,296 6,600,979 -8,320,498 -35,000 -10,000 -5,000 6, 377, 630 3, 652 -2,171,556 -310,647 2, 544, 542 6, 381, 282 6, 381, 282 6665, 97 206, 11 208, 57 169, 72 79, 21 200, 56 310,647 Obligation 97,06 6,058,29 1986 est 5, 961, 23 1, 208, 1, 208, 1, 208, 4, 811, 227 5, 533, 459 -6, 600, 979 25, 037 -18, 943 -1,938 8,746 -2,160 -18,943 2, 171, 556 310, 647 42, 128 719, 152 1, 386, 375 912, 925 1, 053, 665 236, 718 94, 268 386, 078 5, 341, 614 5, 341, 614 5, 341, 614 1985 actual 4, 789, 181 17,398 4, 806, 579 -1, 988, 584 13, 582 2, 031, 30 9(3, 514 1, 259, 820 267, 260 82, 223 556, 235 323, 892 -43, 500 -4, 900 -3, 000 6, 538, 800 51,400 6, 538, 800 6, 538, 800 1987 est. 6, 590, 200 6, 538, 800 Budget Plan (amounts for PROCUREMENT 2, 016, 065 1, 141, 428 1, 241, 480 229, 390 58, 859 526, 482 260, 030 -35,000 -10,000 -5,000 6, 381, 282 6, 377, 630 3, 652 6, 381, 282 6, 431, 282 1986 est. 6, 381, 282 50,000 310,647 artions programed) 310,647 743, 894 1, 582, 557 1, 050, 565 228, 842 87, 650 -10,928 -3,751 -1,593 -131,500 13,582 1985 actual 21,272 5, 128, 029 5, 341, 614 5, 341, 614 5.341,614 42, 128 5, 106, 757 310,647 Reprograming from/to prior year budget pla Unabligated balance transferred to other acc Unobligated balance available, end of year: For completion of prior year budget plans Available to finance subsequent year budge Non-Federal cources(-)
Recovery of prior year obligations
Unobligated be'ance everlable, start of year
For completion of prior year budget plans
Available to finance new budget plans Communications and electronics equipment Personnel and command support equipment Civil enginessing support equipment Supply support equipment Obligations incurred, net Obligations incurred, start of year Obligated belance, and of year Adjustments in unexpired accounts Adjustments in unexpired accounts Appropriation Transferred from other accounts Relation of obligations to outlays 17-1810-0-1-051 Aviation support equipment Ordnance support equipment Appropriation (adjusted) Offsetting collections from: Unobligated balance lapsing irect program: Ships support equipment Spare: and repair parts Total diract program Reimbursable program Budget authority Program by activities: Federal funds(-) Budget authority: Trust funds(-) Identification code 21. 4002 21. 4003 21. 4007 22. 4001 24, 5002 24, 4003 25, 0001 000 1010 10 000 000 0401 0501 0601 0701 10,0001 39, 0031 4001 000 000 000 1000 1016.00 43 0001 0301 88888888 6.4 -27.2 13.77

Program and Financing (in Thousands of dollars) SUMMARY		100 A00 Company Rept
Program and Fin	 17-1410-0-1-081	
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y sands of dollars) FISCAL YEAR 1983 Other Procurement, Navy Program and Financing (in Thousands of

			Budget Plan actions	Budget Plan (emounts for PRICUREMENT actions programed)	PROCUREMENT	;	Obligations	
dentif	Identification code 17;	17-1810-0-1-051	1985 actual	1986 est.	1987 est	1985 actual	1986 est.	1987 est.
	Program by activities:	ti					• • • • • • • • • • • • • • • • • • •	
	٥	: 54						
00.0101		Ships support equipment				33, 694		
00.020:		Communications and electronics equipment				117, 257		
00.0301		Aviation support equipment				43, 715		
00.0401		Ordnance support equipment				41,191		
00.0501	Civil eng:	Civil engineering support equipment				49, 589		
00.0601	Supply sut	Supply support equipment				16, 904		
00.0701	Personnel	Personnel and command support equipment				16,519		
1016.00	Total dire	Total direct program	; ; ; ; ; ;	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	318,869	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
01.0:01	Reimbursable program	program				14, 608		
	[640]					117 000		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1 1 2 3 3 3 3 3 3 3 3 3 3					174 ,000		
•	Financing:							
	Offsetting (Offsetting collections from:						
11.0001	Federal funds(-	(-)spur				6, 330		
13 0001	Trust funds(-)	78(-)				15, 854		
14.0001	Non-Federa	Non-Federal sources(-)				in		
17.0001	Recovery of	Recovery of prior year obligations				-7,701		
	Unobligated	Unobligated balance available, start of year.						
21 . 4002	For comple	For completion of prior year budget plans				-437,775		
21.4007		Reprograming from/ to prior year budget pla	-89,810			•		
22. 4001	5	×	47, 682			47,682		
25, 0001		Unobligated balance lapsing	12, 128			42, 128		
			1 1 1 1 1 1 1 1 1					
39,0001	Budget :	Budget authority						



Other Procurement, Navy Program and Financing (in Thousands of dollars) FISCAL YEAR

personal reserves reserves personal

		Budget Plan (actions	Budget Plan (amounts for PRGCUREMENT actions programed)	PROCUREMENT		Obligations	
Identif	Identification codo 17-1810-0-1-051	1985 actual	1986 est.	1987 est.	1985 actual	1986 est.	1967 est.
_	Program by activities:						
00.0101					116.330	52.787	
00.0201					308, 335	198, 763	
00.0301					140, 464	73, 268	
00.0401					211, 382	60, 585	
00.0501					60, 213	34, 702	
00.0601	Supply support equipment				34, 813	16,096	
00.0201	Persernel and command support equipment				104, 843	75, 466	
1016 .00	Total direct program			1 1 1 1 1 1 1 1 1	976, 380	511,667	
1010.10	Reimbursable program				2, 790	25, 792	
10.0001	Total	1 1 1 1 1 1 1 1 1	; ; ; ; ; ;	• • • • • • • • • • • • • • • • • • •	979, 170	537, 459	
-	Financing:						
11,0001	Office tring (office) trom. Federal funds(-)				2.660		
13 0001	Trust funds(-)				1,643		
14.0001					-572		
17. 0001	Recovery of prior year obligations				-11,242		
21 . 4002	For completion of prior year				-1.550.809	-537.459	
21 4003		;	-75, 790		•	-75, 790	
22 4007	Reprograming from/to prior year budget ple inchligated balance transferred to other acc	-34 100	75 790		001 78-	75 790	
	Unobligated balance available, end of year.	3	3		3		
24.4002	For completion of prior year budget p				537, 459		
24. 4003	Available to finance subsequent year budge	75, 790			75, 790		
39.0001	Budget suthority		1 5 1 1 7 1 1	; 1 1 1 1 1 1 1 1			t 1 1 1 1 1 1 1 1
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Other Procurement, Navy Program and Financing (in Thousands of dollars) FISCAL YEAR 1985

			Budget Plan actions	Budget Plan (amounts for actions programed)	PROCUREMENT		Obligations	
Identi	Identification code	17-1810-0-1-051	1985 actual	1936 est.	1987 est.	1985 actual	1986 est.	1987 est.
	Program by activities:	ivities:						
00 0101	5	rect program: Shiba subport aduipment	743, 894			569, 128	112.098	62. 68A
00.0201		Communications and electronics aguitament	1, 582, 557			960, 783	330, 103	291, 671
00.0301		Aviation support equipment	931, 874			728, 746	155, 532	47, 596
00.0401		Ordnance support equipment	1,060,565			801,092	179,887	79, 586
00.0501		Civil engineering support equipment	228, 842			126, 916	41,878	60,048
00.0601		Supply support equipment	87 650			42, 551	33, 739	11,360
00.020		Personnel and command support equipment	471,375			264, 716	144, 431	62, 228
1016 .00		Total direct program	5, 106, 757	: : : : : : :		3, 493, 932	992, 668	615, 157
1010.10	1 Reimbursable program	manbond a	21,272				21,272	
10.0001	1 Total		5, 128, 029	t 4 5 1 6 6 6	6 4 4 1 1 6 6 7	3, 493, 932	1,018,940	615, 157
11.0001	ī.	nancing: Offsatting collections from: Federal funds(-)	-10.928			-10,928		
13, C001		(-)	-3,75			-8, 751		
14.0001		Urces(-)	-1, 593			- 1, 593		
21 . 4002	5	Unobligated balance available, stant of year: For completion of prior year budget plans					-1,634,097	-615,157
21.4003		Available to finance new budget plans		-234, 857			-234, 857	•
22. 4001		Unobligated balance transferred to other acc		234, 857			234, 857	
24. 4002	5	For completion of prior year budget plans				1,634,097	615, 157	
24. 4003		v	234, 857			234, 857		
40.0001	,	Budget authority (Appropriation)	5,341,614			5,341,614		



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Other Procurement, Navy Program and Financing (in Thousands of dollars) FISCAL YEAR 1986

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1 1 2 3 4 4		Budgot Plan (actions	amounts for programed)	PROCUREMENT		Obligations	
Identif	Identification code 17-1810-0-1-051	1985 actual	1986 est.	1987 est.	1985 actual	1986 est.	1987 est.
	Program by activities.						
00.0101	_		907, 548			701,085	145, 836
00.0201			2,016,065			1,159,158	485, 414
00.0301	Aviation support equipment		1, 141, 428			979, 315	105, 561
00.0401			1 241, 480			966,098	216, 715
00 0501			229, 390			113, 145	50, 509
00.0601	Supply support equipment		58,859			29, 381	21, 436
00.000			526, 482			280, 689	93, 154
00.0801	Spares and repair parts		260,030			221,026	39,004
1016.00	Total direct program	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6.381.282	1 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		4.451.897	1, 157, 631
01.0101	Reimbursable program		50, 000			20,000	
10.0001	Total		6, 431, 282			4, 501, 897	1, 157, 631
	Financing						
10001	Cristing Collections Trom:		. 25,000			7000	
			200			200	
200			200				
	=		7				
21.4002	For completion of prior year						-1,929,385
24 4002	Unobligated balance available, For completion of prior year					1,929,385	771.754
39.0001	l Budget authority		6, 381, 282			6, 381, 282	
40 0001	Budget authority: Appropriation		6, 377, 630			6, 377, 630	
42.0001	Transferred from other accounts	1	3,652	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3,652	
43.0001			6, 381, 282			6, 381, 282	





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		Budget Plan actions	Budget Plan (amounts for PRGCUREMENT actions programed)	PROCUREMENT		Obligations	
Program by activities: Direct program: Ships support equipment Aviation support equipment Communications and electronics equipment Aviation support equipment Givil engines ing support equipment Sivil engines ing sivil engines Total direct program Total Total Financing Fi		1985 actual	1996 est.	1987 est.	1985 actual		1987 est.
Ships support equipment Communications and electronics equipment Aviation support equipment Aviation support equipment Gramance support equipment Support equipment Support equipment Bersonnel and command support equipment Support equipme	Program by activities: Direct program:						
Communications and electronics equipment Advantion support equipment Grantion support equipment Grantion support equipment Civil engineering support equipment Support equipment Furport equipment Spares and repair parts Total direct program Reimbursable program Total Total Total Mon-Federal funds(-) Flower funds(-) Non-Federal sources(-) Unobigated balance evaliable, end of year: For completion of prior year budget plans Budget authority (Appropriation) Budget authority (Appropriation)	;			1,054,366			824, 242
Aviation support equipment Orderace and command sup	Communications and electronics	ı		2, 031, 430			1,415,055
Ordnance support equipment Civil angineering support equipment Suply augmort equipment Spares and command support equipment Spares and repair parts Total direct program Reimbursable program Total Total Total Financing Offseting collections from: Federal funds(-) Trust funds(-)	Aviation support equipment			963, 514			826, 228
Civil engineering support equipment Supply support equipment Support equipment Supply support equipment Support equ				1,259,820			966, 174
Supply support equipment Supply support Supply support equipment Supply suppl	Civil engineering support equi			267, 260			170, 759
Personnel and command support equipment Spares and repair parts Total direct program Reimbursable program Financing: Offacting collections from: Federal funds(-) Non-Federal sources(-) Unobigated balance available, end of year: For completion of prior year budget plans Budget authority (Appropriation) Budget authority (Appropriation)				82, 223			37,645
Speres and repair parts Total direct program Reimbursable program Total direct program Reimbursable program Total Total Total Total Total Total Total Total Total Financing: Offacting collections from: Federal funds(-) Trust funds(-) Non-Federal sources(-) Sudder authority (Appropriation)	Personnel and command support			556, 295			371,044
Total direct program Reimbursable program Total Total Total G,536,800 6,590,200 4,6 Financing: Offacting collections from: Federal funds(-) Trust funds(-) Trust funds(-) Non-Federal sources(-) Non-Federal sources(-) Unobligated balance available, end of year: For completion of prior year budget plans Budget authority (Appropriation)	Spares and repair parts			323, 892			280, 103
Reimbursable program Total Financing: Offsetting collections from: Federal funds(-) Trust funds(-) Non-Federal sources(-) Non-Federal s		0 5 5 1 1 8 1 0 4 8	* * * * * * * * * * * * *	6, 538, 800	1 5 6 7 1 1 1 1	 	4, 891, 250
Total Inencing: Offsetting collections from: Federal funds(-) Frust funds(-) Non-Federal sources(-) Unob:igsted balance available, end of year: For completion of prior year budget plans Budget authority (Appropriation)				51,400			51,400
financing: Offsetting collections from: Federal funds(-) Tourst funds(-) Non-Federal sources(-) Unobligated balance available, end of year: For completion of prior year budget plans Budget authority (Appropriation)		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,	6, 590, 200	1 1 1 1 1 1 1 1	 	4, 942, 650
	Offsetting collections from: Federal funds(-) Trust funds(-) Non-tederal sources(-) Unobligated balance available, end of For completion of prior year budget Budget authority (Appropriation)	m		-43, 500 -4, 900 -3, 000 -3, 800			-43,500 -4,900 -3,000 1,647,550

BUDGET ACTIVITY 1. SHIP SUPPORT EQUIPMENT SUMMARY OF BUDGET PLAN (In Thousands)

See Brooks Appropriate States and See National

SECOND PROPERTY RECEASES.

	FY 1985 ACTUAL	FY 1986 ESTINATE	FY 1587 ESTIMATE	FY 1588 ESTINATE	JUST IFICATION PAGE
SHIP PROPULSION EQUIPNENT GENERATORS AND PUMPS AIR COMPRESSORS PROPELLERS NAVIGATION EQUIPNENT UNDERWAY REPLENISHMENT EQUIPMENT PERISCOPES OTHER SHIPBOARD EQUIPMENT: SHIP SILENCING STRATEGIC PLATFORM SUPPORT DEEP SUBMERGENCE SHIP SUPPORT IMPROVEMENT MINESWEEPING CABLES SAFETY EQUIPMENT MISCELLANEOUS REACTOR PLANT EQUIPMENT MISCELLANEOUS REACTOR PLANT EQUIPMENT COCEAN ENGINEERING SMALL BOATS TRAINING EQUIPMENT PRODUCTION FACILITIES EQUIPMENT SPARES AND REPAIR PARTS	22, 368 11, 367 2, 676 7, 063 33, 013 8, 754 19, 798 117, 270 42, 625 13, 171 10, 543 5, 379 21, 664 68, 253 384, 381 26, 369 14, 146 4, 281 27, 999 27, 599	55, 147 26, 441 3,241 13,521 54,563 8,457 19,811 53,755 11,262 110,057 5,015 45,651 14,777 30,448 6,846	77,073 33,464 6,505 11,714 46,753 2,959 27,210 36,059 72,778 9,797 25,544 7,350 23,015 139,301 430,385 45,562 19,570 18,622 20,241	28,600 23,828 14,470 41,588 41,588 29,130 120,668 14,400 29,845 8,559 27,816 123,641 526,644 50,765 17,011 4,268 31,302	51 11 22 31 44 45 51 51 57 77 7
TOTAL BUDGET PLAN	743,894	907,548	1,054,366	1,159,016	

Budget Activity 1 - Ships Support Equipment

ASSETTION OF THE PROPERTY OF T

(\$ In Thousands)
FY 1986 Estimate \$1,155,016
FY 1987 Estimate \$1,054,366
FY 1986 Estimate \$507,548
FY 1985 Actual - \$743,894

Purpose and Scope of Work

Budget Activity 1 programs include Shipboard Components, Reactor Cores and Reactor Plant Components, support of the Deep Submergence, TRIDEMI and Small Boat procurement programs, and procurement of Production Facilities and training equipment.

improvement program. These components are also procured to fill authorized stock requirements. Fundiny for the Deep Submergence Program is aimed at expanding the Navy's capability to live, work, explore and perform Shipboard components, as well as muclear components and small boats, are procured for direct support or installation on Active Fleet ships as part of a planned maintenance replacement program or as part of an rescue missions in deep ocean areus.

Ship Propulsion Equipment (P-1 Line Items 1-5)

(\$ In Thousands) FY 1968 \$77,073 \$56,600 These funds will provide for the procumement of equipment designed to improve the reliability, maintainability, fuel efficiency, power output, and durability of the LM 2500 Gas Turbine Engines. The LM 2500 engines were introduced into the Fleet through the DD-563 and FFG-7 Class construction programs and the Allison 501K Gas Turbine engine was introduced into the Fleet through the DD-563, DDG 553, and DD 557 Class These improvements will be accomplished through procurement of modifications identified as a result ships. These improvements Will be accomplished unrough processions. These improvements brognam. Existing 1200 and 600 PSI Steam Plants require sufficient funds to of the Component Improvement Program. procure ME831-800 gas turbines, fin stabilizer mods, support for LCAC gas turvines, support for marine diesel engines, clutch retrofit for DL-963/993 class ships, and a depot modernization program for SSN 685 Conductivity monitoring systems, stack gas analyzers, and lube oil strainers. Funds requested will also

Generators and Pumps (P-1 Line Items 6-7)

Thousands) FY 1588	\$23,628
Ξ	
(\$ FY 1567	\$53,484
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programs also procure equipment to support programmed SHIPALTS. Types of equipment procured include a 500KM pumps; trim and drain pumps for SSR's and SSEN's, fire pumps/ends/motors for CVs/CVNs and DLG-37 class, and pumps for the auxiliary/amphibious ship maintenance strategy program, the surface ship advanced equipment repair program, and the depot modernization program for SSN-C88 class. ship service motor for SSN 686's, arcing fault octector for SSN and SSBN overhauls, 1500KW emergency diesel generator for LPH-2 class, 60/400 HZ motor generator sets for CG, CGN and DDG class overhauls, diesel ship Funding requested for these programs will provide for continuation of programs to replace obsolescent, Service power units for PHMs, depot maintenance equipment for SSN 688 class, air conditioning chill water unsupportable, underpowered and unreliable generators and pumps of various capacities and sizes. These

Air Compressors (P-1 Line Items 8-9)

FY 1986	935,3\$
(\$ In Thousands) FY 1587 FY 1587	504 35

feet/hour air compressors which are essential to the operation of Liquiu Oxygen Generating Plants on aircraft carriers in direct support of aircraft, 20 cubic feet/hour air compressors for the surface ship These funds will provide for the procurement of greater capacity and more reliable high pressure air compressors than those currently installed in the Active Fleet. Oil free 20 Cubic feet/hour (CFH) air compressors are needed to support combat Weapon systems on combatants. Also being procured are 30 Cubic advanced equipment repair program, low pressure biowers for SSN-637 class, and equipment for the SSN-668 depot modernization program.

Propellers (P-1 Linc Items 10-11)

housands) FY 1988	\$14,476
FY 1967 FY	\$11,714

damage or failure occurs, as well as for support inventories for the newer classes of ships such as FFG 7s, The requested funding will provide for the procurement of propellers to reduce the noise signature on FBM and attack submarines and us replacements for those propellers currently installed as casualties occur. Funds are also required for replacement of blades, shafts and hubs in support of active filed sinks as DD 963/953s, CG-47s and time AC 177s.

Navigation Equipment (P-1 Line Items 12-14)

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?	FY 1987	

replacements for the MK-3 Ships Inertial Navigation System (SINS) on SSN-637 Class and SSNs 671 and 685, and as replacements for the Dual Miniature Inertial Navigation System (DMINS) on SSN-668 C.ass ships. The improvement over the IK-3 SINS is in reliability, maintainability, availability and performance. The improvement over DMINS is in performance. Funds are also Ludgeted for the CV/CVN navigation system which Will replace the Mk-3 SINS system. This system will provide for improvements in reliability, maintainability, and availability. Funds are also bungeted for maintenance items and newly developed improvements such as the AN/WSW-5 Inertial Navigation Sets for CG/CGN/DDG Class ships, the AN/SSQ-67(V) Hydrofoil Collision Avoidance and Tracking System for PHMs and the Doppler Sonar Velocity Lug for SSN's and These funds will procure Electrically Suspended Gyro Navigators (LSGN) which are programmed as

Underway Replenishment Equipment (P-1 Line Item 15)

usands	\$4, 594
(\$ In Tho	\$5,955

The equipment procured under this program is required to provide the Active Fleet with new or improved underway replenishment-at-sea capability. This equipment is used to transfer fuel, cargo, armunition, and missiles by Loth alonyside and vertical replenishment techniques. The equipment being procured supports the following objectives: personnel/equipment safety; reduction in maintenance costs, and reduction in alongside time, to minimize ship vulnerability to enemy action. Najor equipment includes ram tensioners, air flasks, vertical conveyors, saddle winches, and elevator controllers.

Periscopes (P-1 Line Items 16-15)

housards)	FY 1588	\$27,210 \$29,130
- u1 🚓)	1361 1 4	\$27,210

automatic direction finding modifications. Funds are required to procure a Submurine Satellite Information Exchange reception capability on Type 16 periscopes. Type 18 periscope systems will also be procured to Thuse funds will provide for the procurement of Type 18 periscope related material and other periscopes and accessories. The Type 18 periscope equipment includes e epiece boxes and masts which are required to establish an inventory of these parts based on actual/predicted failure rates and turn around times—and

686 class submarines. Field change kits are being procured to implement approved changes on previously procured Type 18 periscopes. Equipment to provide additional shore/tender based components for other type periscopes is also required to ensure that an issuable periscope is always available as a replacement for damaged units on SSN-594 and 637 Class ships. This requirement is based on past demand experience and repair turn around time. The Type 8 periscope program will enable the modification of Type 8 periscopes to incorporate solid state amplifiers, twelve-charmel rotaly joints, and improved slip ring assemblies noise source and sapphire heated head window assemblies. Type 8 Mod 3 periscopes will be procured to replace existing periscopes on SSBN submarines. The improvement over existing equipment is enhanced imaging and communications. Funding will also provide for support and improvement of the Type 2 and 15 series periscopes for all Active Fleet submarines.

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Other Shipboard Equipment (Ship Silencing) (P-1 Line Items 22 23

(\$ In Thousands) FY 1987 536,059 \$25,500 The requested funds will provide for the procurement of equipment such as Glass Keinforced Piastic (GKP) Dones, air reducing Lanifolds, acoustically balanced diffuser pump casings, high pressure brine pump modification kits, main lube oil lined pipe acoustic filters, vent fan modifications and noise/vibrution monitor analyzers required to implement the high priority Submarine Silencing program on existing nuclear detection capability and reducing the detectability of the submarine. The surface ship silencing program will make use of the extensive silencing technology already developed under the Submarine Silencing program. FY 1987 and FY 1988 funding provides for the procurement of Masker Belts for CGs, PKAIRIE masker equipment for CVs, ALs and AUs, Compound Air Maskers for large comparate, and they hose and line filters for DD's and DOG's. submarines and for the acoustic quieting of radiated noise and sonar seif-noise for surface ships. The submarine silencing equipment incorporates technology developed under RDIAEN programs for improving

Other Shipboard Equipment (STRATEGIC PLATFORM SUPPORT) (P-1 Line Item 25)

(\$ In Thousands) FY 1967

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\$72,778 \$120,668

equipment and repair (TRIPER) equipments to adhieve due required operational avairabiling and to admieve a depot availability period which does not exceed one year, alteration/modification packages for TRIPER equipment to maintain standardization and interchangeability of assets, long load material/equipment for the advanced equipment replacement program, main shaft scal mating rings, and alteration/mouification packages Funding for this program provides for hull, mechanical and electrical equipment and tools required to pertorm measurements in support of maintenance tasks, equipment to develop stock levels for ikinthi plant or hull, mechanical and electrical equipment.

Other Shipboard Equipment (Deep Submergence) (P 1 Line Item 26)

(\$ In Thousands) FY 1987 \$5,757

floor. It also will improve the capability to perform manned underwater search, inspection and recovery The requested funds will provide for the procurement of haraware to improve/modify Deep Submergence Vehicles to provide the Navy with the capability to rescue personnel from craft disabled on the ocean mi ss ions .

Other Shipboard Equipment (Ship Support Improvement) (P-1 Line Items 31 and 37)

FY 1587 FY 1986 **525,944** \$25 845

condition of Engineered Operating Cycle ships achieve increased operational availability and provide funds replacement with repairables being returned to Intermediate Naintenance Activities and Lepot Overhaul Points for repair or rework and return to stock. Inherent in the Engineering Operating Cycle will be several intervening maintenance availabilities of extremely short duration for performing scheduled alteration, and to upgrade facilities both ashore and afloat (industrial plant and tenders) in order to improve and expand intermediate level maintenance by the surface forces. Shipbourd maintenance will emphasize modular assemblies and components to support These programs will procure critical, long lead time equipments assemblies and components to support the maintenance-limited LO-BIX classes of ships after delivery; provide for improvement in the material planned overhaul of installed equipment.

Other Shipboard Equipment (Minesweeping Cables) (P 1 Line Item 29)

Thousads)	FY 158
Ξ	
<u>\$</u>	FY 1587

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86 559 \$7,350 This program will provide for the procurement of minesweeping cables necessary to counter moored and influence mines. These funds will procure G-3 and S-3 cables, mine neutralization system vehicles, calles and modification kits, and a complete mine neutralization system in FY 1987 and FY 1986.

Other Shipboard Equipment (Safety Equipment) (P-1 Line Items 19, 33, and 35)

n Thousands)	FY 1988
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\$23,015

Apparatus Voice Amplifiers to improve communications between fire fighting team members, shielding which will be affixed to bulkheads and to cradles containing the individual weapons on CVs, SSN-688 Class, Non-FBM These funds procure equipment which supports shipboard fire fighting operations, ruel tank inspection, ASs and at shore facilities, and chemical warfare directional detectors and chemical agent point detector Funding will provide with the latest available safety equipment in order to perform assigned tasks without risking personal injury, provide for the protection of personnel from exposure to nuclear weapons radiation and provide ships of the active fleet with the capability to detect chemical warfare agents before ship complement the existing Aqueous Film Forming Foam/Purple K Dry Chemical Powder Lose reel systems in machinery spaces as well as procurement of this system in a mobile portable form and Oxygen Breathing Contamination occurs. FY 1967 and FY 1988 funding will provide Halon 1301 Fire Fighting systems to and other activities which can involve the exposure of lungs to noxious substances. the Navy

34, 36 and 38) In Thousands) 32, Other Shipboard Equipment (Miscellaneous) (P-1 Line Items 20, 21, 24, 27, 28, 3C,

FY 1588 **\$**123 641 FY 1987 \$139,301

equipment for merchant ships to provide them with the capability to perform Naval auxiliary roles, provision of specialized equipment to assure reliable repair of electronic modules at selected shore. which will enable the Navy to comply with Federal law and DOD environmental pollution control regulations, replacement batteries for all active submersible craft/submarines, procurement and positioning of special These funds provide for the procurement of Combat System Command and Control Switchboards, equipment

surface and subsurface Fleet activities, acquisition of energy conservation systems, equipment and modifications developed through the Chief of Naval Operation's Energy Research and Development program for installation on board submarines which Will enhance safety and reduce the submarines vulnerability to detection; and modifications/replacements for all equipment that is not in a specific category and which cost less than \$900,000 by category

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Reactor Plant Equipment (P 1 Line Items 39 and 40)

FY 1988 \$526,644 (\$ In Thousands)

\$430 385

components, equipment, and material required to provide minimum support needed for the continued safe and reliable operations of mayal nuclear propulsion plants. Funds are programmed for acquisition of replacement Department of Energy (DOE). The DOE has ueveloped production lines within the civilian nuclear industry to fabricate these units. The funds requested are required to meet the refueling needs of the Navy in a manner components for ship alterations, initial and replenishment stock spare components, and specialized equipment assemblies of nuclear fuel and necessary associated structural and reactivity control equipment required for most efficient to the government as recommended by the DOE. The reactor component line item includes the the periodic refueling of nuclear powered ships. The procurement of these units is accomplished by the The FY 1987 and 1988 requests provide funds for the procurement of replacement reactor cores, power Inits and other reactor plant components and equipment. Replacement cores and power units are the necessary for refucling of nuclear powered ships.

Ocean Engineering (P-1 Line Items 41-42)

\$50,760 (\$ In Thousands) FY 1987 \$43,562

Tool System, Ready on Pier Emergency Repair diving cart, diving boats; hardware which will increase the U.S Navy operational surface supported maximum diving depth from 300 to 450 feet and salvage equipment such as depth capabilities and mission duration restrictions imposed on the working diver, equipment to improve the Mavy's diving capabilities and maintain sufficient levels of critical salvage items; and improved equipment These programs provide for the procurement of equipment to support safety requirements at the existing developed as part of Swimmer Support Systems for Underwater Demolition Teams, SEAL Teams and Inshore Undersea Warfare Groups. FY 1987 and FY 1968 funds will procure the LK14 Push Pull System and the Deep hydraulic pullers, stato anchors, puller beach gearlegs, and synthetic line, NK-VIII Swimmer delivery vehicle, deck shelters, SEAL team outfitting, laser taryet designator, reserve equipment, and underwater breathing apparatus.

Small Boats (P 1 Line Items 43)

(\$ In Inousands) 987 FY 1988	\$17.01.
5 28	70
FY 1987	\$19,570

obsolete wooden boats now in service, and to replace boats of fiberglass or steel construction which are beyond economical repair. Types of boats to be procured with these funds include the 26' Noton Whaleboat, 14' Punt, 35' and 50' Workhaat, 24' FOD Craft, and 58' FOD Summort Craft. Standard boats procured with these funds will be used to fill new or revised allowances, to replace Punt, 35' and 50' Workboat, 24' EOD Craft, and 58' EOD Support Craft.

Training Equipment (P-1 Line Item 44 and 45)

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	FY 1988	\$4 268
Thousands)	FY 1987	
<u> </u>	FY 1987	\$18,622

This program provides equipments for the support of initial training requirements developed through the Navy Training Plan process and sustaining training requirements developed by the Chief of Naval Education and Training. This funding will also procure equipment for the construction of a CG-47/DD 963 gas turbine Operational facility. and Training.

Production Facilities Equipment (P-1 Line Items 46, 47 and 48)

ousands)	FY 1988	\$31,362
(\$ In The	FY 1587	\$20,241

These programs provide for the procurement of replacement cranes for the floating dry dock at Norfolk Naval Shipyard, funding required for industrial plant equipment and other shop equipment necessary to support Navy managed facilities; machine tools, industrial plant equipment and other plant equipment necessary to support the Fleet Operations Program and calibration equipment for the intermediate and organizational maintenance levels.

Spares and Repair Parts (P-1 Line Item 49)

This program provides for the procurement of initial spares and repair parts required to support conents installed on-board ships of the Active Fleet Funding for this program was transferred to Budget components installed on-board ships of the Active Fleet Activity 8 in FY 1986.

BUDGET ACTIVITY 2: COMMUNICATIONS AND ELECTRONIC EQUIPMENT SUMMARY OF BUDGET PLAN (In Thousands)

	FY 1985 ACTUAL	FY 1986 ESTIMATE	FY 1987 ESTIMATE	FY 1988 ESTIMATE	JUSTIFICATION PAGE
SHIP RADARS SHIP SONARS (SURFACE SHIPS) SHIP SONARS (SUBMARINES) SHIP SONARS (GENERAL SUPPORT) SHIP SONARS (GENERAL SUPPORT) ANTI-SUBMARINE WARFARE ELECTRONICS (SUBMARINE) ANTI-SUBMARINE WARFARE ELECTRONICS (SUBMARINE) ANTI-SUBMARINE WARFARE ELECTRONICS (SUBMARINE) ANTI-SUBMARINE WARFARE ELECTRONICS (SURVEILLANCE) ELECTRONIC WARFARE EQUIPMENT RECONAISSANCE EQUIPMENT TRAINING EQUIPMENT OTHER SHIPBOARD ELECTRONIC EQUIPMENT TRAINING EQUIPMENT AVIATION ELECTRONIC EQUIPMENT OTHER SHORE ELECTRONIC SUPPORT SHORE COMMUNICATIONS SATELLITE COMMUNICATIONS SATELLITE COMMUNICATIONS CRYPTOGRAPHIC EQUIPMENT CRYPTOGRAPHIC EQUIPMENT OTHER ELECTRONIC SUPPORT	163,870 70,516 116,967 42,864 163,864 163,133 36,135 92,254 63,126 178,796 3,396 64,126 16,218 52,068 33,323 30,340 111,675 14,024 10,828 126,065	156,017 46,149 120,372 51,013 215,220 10,666 54,344 100,720 164,679 80,924 23,693 374,67 37,457 37,457 37,676 69,591 63,552 155,511 19,138	138,427 83,687 89,724 46,900 159,520 70,114 40,617 102,933 198,056 9,663 323,716 5,035 120,676 46,605 67,636 67,636 67,636 12,008 12,008 8,099	166,018 104,465 45,914 61,117 189,450 85,952 21,941 105,371 26,7749 158,124 86,477 323,070 2,642 134,877 36,654 65,004 84,384 56,383 83,760 195,066 24,504 5,252	20 20 20 22 22 23 24 24 24 25 26 26 27 29 30 30 30 30 30 30 30 30 30 30 30 30 30
FOTAL BUDGET PLAN	1,582,557 2,016,065		2,031,428 2	2,529,871	

Budget Activity 2: Communications and Electronic Equipment

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- \$2,031,428 - **\$2,016,065** - **\$1,582,557** - \$2,529,871 (\$ In Thousands) FY 1988 Estimate - FY 1987 Estimate - FY 1986 Estimate - FY 1985 Actual -

Purpose and Scope of Work

Budget Activity 2 programs include the procurement of shipboard and shore communications and electronic and underwater radiation for the purpose of executing an effective surveillance and intelligence collection provide the Fleet with the capability of deceiving, intercepting, and analyzing airborne, electro-magnetic equipment for the Active Fleet and training activities. Improved shipboard surface and air search radars employment in Fleet Ballistic Missile submarines. Also procured in this activity is equipment which will are designed to enhance the military capability of combatant ships. Anti-Submarine Warfare Electronics equipment will furnish surface ships, submarines and special shore activities with equipment used for detection, tracking localization and classification of submarines. Special sonars are procured for capability.

Justification of Funds:

Ship Radars (P-1 Line Items 50-56)

FY 1988 (\$ In Thousands)

\$166,018 \$138,427

system improvements which are designed to increase detection capability in hostile, cluttered, or low-flyer threat environments through imnproved system avallability and automation techniques (FY 1987 \$17.7 million; primary surface search radar in the Fleet (FY 1987 \$7.2 million; FY 1988 \$4.0 million); the AN/SPS-40 radar identification equipment to meet the challenge of high speed attack capabilities of low-flyers, anti-ship The FY 1987 an∉ FY 1988 Ship Radar procurements provide the Active Fleet with detection, tracking and missiles and modern aircraft. Specific radars and radar equipment improvements to be procured in FY 1987 and FY 1988 include the AN/SPS-67(V) radar (the modernized version of the AN/SPS-10 radar), which is the AN/SYS-()) which provides the capability to correlate contact data from up to three radars, determine \$59.6 million); the AN/SPS-49 radar, a narrow beamed, very long-range two dimensional, air search radar (FY 1987 \$17.0 million; FY 1988 \$27.3 million); the Integrated Automatic Detection and Tracking System FY 1988 \$29.9 million); the AN/SPS-48 radar, a three-coordinate air search radar which has a primary function of providing target position data to a weapon system (FY 1987 \$48.8 million; FY 1988 arget tracks, and provide a single target output to the ship's command and decision system automatically (FY 1987 \$13.7 million; FY 1988 Point Defense Surface Missile System (FY 1987 \$20.1 million; FY 1988 \$19.1 million). The FY 1987 and FY 1988 request also includes funding for procurement of various radar support items (FY 1987 \$13.9 million; counter-counter-measure capable radar system developed as the target acquisition system for the Improved \$14.6 million); and the MK-23 Target Acquisition System, a rapid reaction, fully automatic, electronic fy 1988 \$11.5 million).

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Ship Sonars (Surface Ships) (P-1 Line Items 57-59 and 62)

(\$ In Thousands) FY 1987

\$83.687

procurement of emergency replacement windows and domes for the AN/SQS-26/53, AN/SQQ-23, AN/SQS-56 and AN/SQS-38 sonar systems. In addition, the \$34.0 million budgeted in FY 1987 and the \$20.4 million budgeted in FY 1988 provides for the initial procurement of two AN/SQS-53C sonars for configuration software Funds requested for Surface Ship Sonars include \$14.2 million in FY 1987 and \$12.8 million in FY 1988 for procurement of AN/SQS-26 CX 153A sonar improvements. \$25.1 million in FY 1987 and \$64.0 million in FY 1988 provide for follow-on procurements of AN/SQS-53B Shipboard Kits (four in FY 1987 and six in FY 1988). \$10.4 million budgeted in FY 1987 and the \$7.3 million budgeted in FY 1988 provides for the maintenance and technical training.

Ship Sonars (Submarines) (P-1 Line Items 60, 61 and 65)

\$45,914 \$89,724

funds also provide for procurement of AN/BQR-23 Improved Processors and Memory, AN/BQR-15 array modification shippalts, AN/BQQ-9 systems and various other alterations for installation on SSBN class submarines (FY 1987 maintenance trainers (FY 1987 \$83.3 million; FY 1988 \$28.7 million). Beginning in FY 1987, a competitive (one year with two one-year options) procurement of TB-16 arrays is planned for six units, with an additional 22 units planned for subsequent procurement (FY 1987 \$4.6 million; FY 1988 \$6.9 million). These funds provide for continued procurement of AN/BQQ-5 modification kits required to upgrade previously procured and installed AN/BQQ-5 systems onboard SSN-637 and SSN 688 class submarines and \$1.8 million; FY 1988 \$10.3 million).

Ship Sonars (General Support) (P-1 Line Items 63 and 64)

(\$ In Thousands) FY 1987

\$61,117 \$46,900 These funds procure upgrade equipment for the Transducer Repair Facilities, including Towed Line Array (ILA) plant equipment for the TB-16, AN/SQS-18A(V)1, AN/SQR-18A(V)2, and AN/SQR-19; and engineering changes for the AN/BQS-14 including the upgrade of the Forward Look (FLU) portion of this sonar, and AN/BQS-15 (FY 1987 \$10.4 million; FY 1988 \$12.3 million). This request also includes resources to continue procurement of TR-317 transducers for the AN/BQS-11/12/13 and AN/BQQ-5 sonars for use on SSN-594, SSN-637 Switches required to support replacement of unreliable mechanical switches with electronic switches on both surface ships and submarines (FY 1987 \$36.5 million; FY 1988 \$48.8 million). and SSN-688 class submarines; new TR-313 transducers for the AN/SQS-26 Sonar; and Electronic Scanning

Anti-Submarine Warfare Electronics (Surface Ships) (P-1 Line Items 67 and 71-74)

(\$ In Thousands) FY 1987 \$189,450 \$159,520

\$45.5 million); AN/SQR-17 performance improvements and AN/SKR-4 Data Link Modifications required to receive the new DIFAR/DICASS frequencies (FY 1987 \$7.8 million; FY 1988 \$5.1 million); improvements to increase the service life of the AN/SQR-15 Towed Array System (FY 1987 \$1.2 million; FY 1988 \$.8 million); 10 complete systems for installation on deploying ships and those in the Naval Reserve Force. This request includes procurement of 34 AN/SLQ-25 (NIXIE) systems in FY 1987 and 4 systems in FY 1988 as well as eight AN/SLQ-36 systems planned as replacements for the AN/SLQ-25 on selected ships (FY 1987 \$9.4 million; FY 1988 AN/UVQ-2! displays in FY 1988 (FY 1987 \$112.4; FY 1988, \$100.2) and procurement of kits to upgrade the AN/SQR-18A systems to the AN/SQR-18A(V)l configuration and continue procurement in FY 1987 and FY 1988 of The FY 1987 and FY 1988 funding provides for the procurement and support of major ASW electronics AN/SQR-19 systems with 10 AN/UYQ-21 full displays in FY 1987 and 10 AN/SQR-19 systems with two full the AN/SQR-18(V)2 critical angle tow systems which employ the AN/SQR-19 hoist for installation on non-variable depth sonar ships (fY 1987 \$28.7 million; FY 1988 \$37.9 million). Anti-Submarine Warfare Electronics (Submarine) (P-1 Line Items 66, 68 and 69)

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(\$ In Thousands)
FY 1987

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\$70,114 \$85,952

equipment and module screening and repair activities equipment to support the AN/BSY-1 Combat Control and Acoustic Set. In addition, \$.7 million in FY 1987 and \$1.2 million in FY 1988 is requested for the Acoustic Communications system, a multi-phase program which provides improved tactical acoustic communications systems for the three primary Anti-Submarine Warfare platforms (aircraft, surface ships, and submarines). budgeted in FY 1988 provide for the procurement of team trainers, Intermediate Maintenance Activities (IMAs) procurement of AN/FLR-14/BQR-15 Interface Engineering Changes, procurement of the Acoustic Device Countermeasure (ADC) MK-1, MK 2 NAE Beacons (MK3), AN/BQH-7 engineering changes and expendable probes.

AN/MLR-9/12 engineering changes and, commencing in FY 1988, the Countermeasures Set Acoustic (CSA) MK 2 NG for SSBNs and CSA MK MOD 1 for SSN-637 class submarines, AIR display engineering changes, ADC MK 3, associated SHIPALTS/ECPS and production support. \$46.2 million budgeted in FY 1987 and \$44.3 million Marfare Systems (SAMS) which will provide an enhanced survival capability for submarines to use against enemy torpedoes and a means to reduce the effectiveness of enemy sensors. These funds also provide for the request includes \$23.2 million in FY 1987 and \$40.4 million in FY 1988 for Submarine Acoustic

Anti-Submarine Warfare Electronics (Aviation) (P-1 Line Items 76 and 77)

(\$ In Thousands) FY 1987 \$40,617 \$21,941

These funds will procure reliability and operability improvements to ADP equipment and will provide for continued production of UYQ-21 displays in FY 1987 and FY 1988 as well as continued procurement of improvements to the Acoustic Analysis subsystem and UYQ-21 displays. All of these are components of the Carrier AS% Module of the Carrier Combat Direction System (FY 1987 \$27.9 million; FY 1988 \$18.0 million) Operations Center (ASWOC) which is the land based terminus for ASW area commanders in the overall Navy The request also includes resources to support procurement of various equpments which support the ASW Command Control System (NCCS). (FY 1987 \$12.7 million; FY 1988 \$3.9 million). Anti-Submarine Warfare Electronics (Surveillance) (P-1 Line Items 70 and 75)

(\$ In Thousands) FY 1987 FY

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1105,371 \$102,933

configuration changes, searchlight processing, cable and shore electronics, (FY 1987 \$83.2 million; FY 1988 \$83.9 million). The funds requested in FY 1987 for SURTASS will procure three shore electronic units and field changes and modifications. The FY 1988 funds requested will procure one shore electronic unit, two backup arrays, and field changes and modifications (\$19.7 million in FY 1987; \$21.5 million in FY 1988). Specific items to be procured in SOSUS include ship improvement equipment, cable replacement and engineering, trainer hardware and These funds will support both the SOSUS and the SURTASS programs.

Electronic Warfare Equipment (P-1 Line Items 78-86)

(\$ In Thousands) FY 1987 \$198,056 \$267,749

change kits, depot upgrades, engineering change proposals, and direction finding (DF) Antenna Subsystems for procured include the AN/SLQ-32, a family of modular shipborne electronic warfare equipments to be installed in most combatants and auxiliaries in the surface Navy. \$76.0 million in FY 1987 will procure three and CVN class ships to offer a viable and effective defense against simultaneous multi-threat, multi-axis Anti-Ship Missile (ASM) attack. \$14.2 million in FY 1987 provides for procurement of upgrades, Engineering Change Proposals (ECP's), depot maintenance equipment and one Passive AN/SLQ-17A(V)2 system to increase the ESM capability and prepare for Selected Restricted Availability (SRA) installation of AN/SLQ-32 based improved active subystem. \$30.8 million in FY 1988 provides for procurement of additional Engineering Change Proposals. The AN/WLR-1H is a tactical ESM receiver for use on-board SSN and CV/CVN class ships. \$4.3 million budgeted in FY 1987 and \$5.5 million budgeted in FY 1988 provides for the procurement of field Improvement (Band 1), Electronic Support Measures (ESM) Sensitivity Improvements (Band 1 and 3), Band 3 ESM HAI. Antenna Enclosure Improvements, and Electromagnetic Interference (EMI) Improvements. \$97.8 million in FY 1988 will procure six AN/SLQ-32(V)3 systems, and EW Improvements. The AN/SLQ-17 system is for use on CV Fleet Electronic Warfare Support Group (FEWSG) provides a realistic air, surface, and The FY 1987 and FY 1988 Electronic Warfare procurement provides the fleet with systems that have the AN/SLQ-32(V)3 systems and Electronic Warfare Improvements as follows: Direction Finding (DF), Accuracy Specific systems to be capability of detecting overt electromagnetic emissions through passive means. CV/CVN class ships.

subsurface threat environment for Fleet Training and support of Operational Test and Evaluation of Electronic Systems. \$1.6 million budgeted in FY 1987 and \$1.4 million budgeted in FY 1988 provides for the Assessment Project (DVAL). \$69.2 million budgeted in FY 1987 and \$67.3 million budgeted in FY 1988 are for Reprogrammable Library terminals/processors/printers, Land Mobile systems, and the Data Link Vulnerability procurement of signal density enhancement for AN/ULQ-13(V) vans. \$22.6 million budgeted in FY 1987 and \$48.2 million budgeted in FY 1988 are for procurement of Scenario Generators, High Frequency (HF) Communications Simulators, RADAR Jammer II Buoys, and E/F Band Simulators. \$10.2 million budgeted in FY 1987 and \$11.2 million budgeted in FY 1988 are for procurement of AN/ULQ-16 Video Processors, procurement of Chaff Buoys, Active Electronic Buoys (AEB), and DLF-1/2 buoys.

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Reconnalssance Equipment (P-1 Line Items 87-91)

FY 1988 (\$ In Thousands) FY 1987 \$158,124 \$77,526

Combat Direction Finding Systems. \$5.2 million budgeted in FY 1987 and \$9.7 million budgeted in FY 1988 are for procurement of Combat Cryptologic Support Consoles (CCSC). \$9.6 million budgeted in FY 1987 and \$10.6 million in FY 1988 are for procurement of equipment for intelligence centers for the Aircraft Carriers This funding will provide the tactical capability to detect, locate and identify hostile targets at long range and to input this information into the ship's Tactical Data System. \$26.1 million budgeted in FY 1987 and \$32.5 million budgeted in FY 1988 are for continued procurement of OUTBOARD Phase I and OUTBOARD Phase \$46.4 million budgeted II suites. \$36.7 million budgeted in FY 1987 and \$59.0 million budgeted in FY 1988 are for procurement of (CV), Fleet Imagery Support Terminals (FIST), and Analyst Display Terminals (ADT). n FY 1988 is for procurement of a Battle Group Passive Horizon Extension System.

<u>Submarine Surveillance Equipment (P-1 Line Items 92-97)</u>

(\$ In Thousands)

\$86,477 \$9,663

subsystems and four AN/BLD-9 improved acquisition systems which will provide improved performance of SSN-688 Class submarines against long range targets. \$3.6 million budgeted in FY 1987 and \$21.9 million budgeted in \$1.2 million budgeted in FY 1987 and \$9.0 million budgeted in FY 1988 are for procurement of automatic test equipment, repair test stations, and test program sets for the AN/WLQ-4(V) system level overhaul depot submarines and five Mini-N-Suite signal intelligence augmentation modification kits, both installed on the SSN-637 Class submarines. \$14.5 million budgeted in FY 1988 is for procurement of seven AN/BLD-1 direction The funding requested provides for special equipment in support of submarine surveillance operations. fY 1988 are for procurement of modifications to the existing AN/WLQ-4(V) installed on the SSN-637 Class \$37.7 million budgeted in FY 1988 is for procurement of thirteen AN/BRD-9 direction finding

facilities for use on board nuclear attack submarines as well as for procurement of improved power supplies targets. \$4.9 million budgeted in FY 1987 and \$3.5 million in FY 1988 are for the procurement of unique equipments that are maintained in limited quantities at Submarine Surveillance Equipment Program Support finding systems which will provide improved performance on SSN-688 Class submarines against long range for AN/WLR-8(V)2 systems.

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Other Shipboard Electronic Equipment (P-1 Line Items 98-106)

(\$ In Thousands) FY 1987 FY 19 \$323,716 \$323,070

are for procurement of mine hunting sonars for Minesweeping Boats (MSBs), route survey sonars for Oceangoing \$104.7 million budgeted in FY 1987 and \$120.3 million budgeted in FY 1988 provides for procurement of improvements to the Navy Tactical Data System (NTDS) which permits major warships rapid integration of ship sensor information, analysis and display of tactical information and designation of weapon systems to force \$5.1 million; FY 1988 \$6.5 million). \$2.1 million budgeted in FY 1987 and \$6.5 million budgeted in FY 1988 Minesweepers (MSOs), and precise navigation equipment. \$24.9 million budgeted in FY 1987 and \$16.0 million commander by receiving and displaying information relative to the current tactical situation. \$4.0 million budgeted in FY 1987 and \$18.6 million budgeted in FY 1988 are for procurement of equipment for the Command 14.2 million budgeted in FY 1988 is for procurement of 119 state-of-the-art OMEGA receiving sets (LTN-211). budgeted in FY 1988 are for procurement of shipboard and manpack receiver equipment for the NAVSTAR Global FY 1987 and \$6.2 million budgeted in FY 1988 are for procurement of the AN/USQ-74, a Link II Data Terminal \$17.2 million budgeted in FY 1987 and \$18.1 million budgeted in FY 1988 are for procurement of six three-dimensional positioning/navigation capability to the operational forces. \$4.3 million budgeted in [actica] Flag Command Centers (1FCC) (three in FY 1987 and three in FY 1988) which support the tactical his request also includes resources to support procurement of equipment for the Armed Forces Radio and threats. \$161.3 million budgeted in FY 1987 and \$126.8 million budgeted in FY 1988 are for electronic training and entertainment of United States servicemen and their dependents at sea or ashore (FY 1986 felevision Service (AFRIS) which operates radio and television outlets for the shipboard information, equipment for the TRIDENI Training Facility (TRITRAFAC) and the TRIDENT Refit Facility (TRIREFFAC). Positioning System (GPS), a joint service program which will provide a continuous, world-wide

and Control Processor (C² Processor) which is the interface between tactical digital data link equipment.

Training Equipment (P-1 Line Items 107 and 108)

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(\$ In Thousands)
EY 1987

\$5,035 \$2,642

navy training is currently available. It also satisfies requirements to expand the Navy training capability on existing equipment to meet heavier needs for trained personnel in the Fleet (FY 1987 \$5.0 million; train officer, operator and maintenance personnel on new or significantly modified equipment for which no The FY 1987 and FY 1988 requests are for procurement of equipment to satisfy initial training requirements developed through the Navy Training Plan process which will give the Navy the capability to f Y 1988 \$2.6 million).

Aviation Electronic Equipment (P-1 Line Items 109-118)

(\$ In Thousands) FY 1987

061

\$120,676 \$134,877

secure identification systems. The Marine Air Traffic Control and Landing System (MATCALS) will provide a fully automatic air traffic control and landing system. \$29.6 million budgeted in FY 1987 and \$32.4 million antennas. The Air Station Support Equipment Program addresses air traffic control requirements and enhances flight safety at Navy and Marine Corps Air Stations. The Air Station Support equipment budget request includes \$15.1 million budgeted in FY 1987 and \$12.9 million budgeted in FY 1988 for Fiber Optic Cable The FY 1987 and FY 1988 request for Aviation Electronic Equipment provides for procurement of electronic FY 1988 are for procurement of seven AN/SPN-46 systems to replace the aging AN/SPN-42A Automatic Carrier Landing Systems. \$.9 million budgeted in FY 1987 and \$6.6 million budgeted in FY 1988 are for procurement \$12.9 million in FY 1987 and \$16.7 million budgeted in FY 1988 for procurement of 17 AN/SPN-43 solid state equipment to support Naval and Marine aviation shore activities, shipboard aircraft control equipment and budgeted in FY 1988 are for procurement of five Air Traffic Control (ATC) subsystems in each fiscal year, (AATC-DAIR) systems for LPH's and LHA's. \$23.1 million budgeted in FY 1987 and \$21.3 million budgeted in deficiencies in the Air Traffic Control Radar Beacon, Identification Friend of Foe, MK XII System (AIMS) SATC funding includes \$10.3 million budgeted in FY 1988 are for procurement of a variety of field changes required to correct plus replacement equipment for the AN/TSQ-18 Landing Control Central (LCC). The Shipboard Air Traffic radar fleld changes, 13 AN/UYK-44 computers to replace AN/UYK-20's in the Carrier Air Traffic Control Centers-Direct Altitude Identification Readout (CATCC-DAIR), and three Amphibious Air Traffic Control of 17 Tactical Air Navigation (TACAN) systems for Navy ships. \$9.4 million budgeted in FY 1987 and fleid changes, 200 AN/UPM test sets, 70 Mode IV evaluators, 57 hand held test sets and 30 wideband Systems, 19 Landing Signal Officer (LSO) and Runway Duty Officer (RDO) shelters, 66 AN/GRC-211 VHF Control (SAIC) program will improve air traffic control operations in the Fleet.

operational Radar Air Traffic Control Facilities (RATCF). \$6.2 million budgeted in FY 1987 and \$7.0 million |ranscelvers, 5 AN/TPN-30 Radar Sets, and various communication system replacements. \$1.5 million budgeted In FY 1987 and \$1.6 million budgeted in FY 1988 are for procurement of 30 Open Planar Array Antennas for budgeted in FY 1988 are for procurement of 26 Microwave Landing Systems (MLS). \$22.1 million budgeted in FY 1987 and \$26.0 million budgeted in FY 1988 are for procurement of Fleet Area Control and Surveillance Facilities (FACSFAC) communication modernizations, FACSFAC Air Control Tracking System (FACTS) modifications, increased hardware/software maintenance capability and upgrade of the Joint Air Reconnaissance Control Center (JARCC).

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Other Shore Electronic Equipment (Command and Control) (P-1 Line Items 119-122)

(\$ in Thousands) FY 1987 FY 1988

\$46,065 \$36,654

reports for use by Operational Navy Commands (FY 1987 \$2.2 million; FY 1988 \$2.2 million). The Navy Command Multiple Unit Link Eleven Test and Operational Training System (MULTOTS), a transportable system to validate for the coordination and integration of shore based command centers and their respective systems; resources will procure baseline command center upgrades, communications hardware, satellite communications equipment, These funds will procure electronic equipment for replacement of obsolete equipment of the Navy Space Surveillance System, and unalerted real-time detection of non-radiating satellites and other objects which and Control System (NCCS) Ashore program (\$39.6 million in FY 1987 and \$25.4 million in FY 1988) provides pass through multistatic continuous wave radar beams (FY 1987 \$3.1 million; FY 1988 \$9.0 million). This request includes resources to support the Space System Processing System procurement of special computer \$1.3 million budgeted in FY 1987 also provides for procurement of Radar System Simulation Units for the hardware and software necessary to improve information processing and generation of highly classified correlation upgrade equipment, replacement equipments, and formated message origination systems. Link II interoperability on Tactical Data Systems equipped ships and aircraft.

Other Shore Electronic Equipment (Miscellaneous) (P-1 Line Items 123-130)

(\$ In Thousands) FY 1987

\$225,697

\$67,636

The \$7.9 million budgeted in FY 1987 and \$7.9 million budgeted in FY 1988 is for the Radiation Detection Indication and Computation Equipment Program (RADIAC) which procures instruments to detect and measure nuclear and ionizing radiation and convert these measurements into meaningful terms so that Navy personnel can adequately control personnel exposure to those radiations. Funds in the amount of \$28.3 million in (GPETE) for initial outfitting of new or modified Fleet and shore electronic equipments. Funding of \$4.8 FY 1987 and \$22.6 million in FY 1988 are for the procurement of General Purpose Electronic Test Equipment

million in FY 1987 and \$6.3 million in FY 1988 is for procurement of equipment required for the Integrated Combat System Test Facility (ICSTF), located at San Diego, California, the only permanent Navy test facility area surveillance systems (Over the Horizon Radars) to provide targeting information to tactical commanders afloat. The FY 1987 and FY 1988 requests also include resources to support procurement of replacements for deteriorating and obsolete management equipment (FY 1987 \$8.7 million; FY 1988 \$5.2 million). procurement of a new generation of signal generators and oscillator calibrators capable of calibrating up 18 GHz to support test equipment for FFG-7 and DD-963 class ships and TRIDENT submarines and up to 40 GHz Electromagnetic Interference (EMI) problems in electronic systems and equipments throughout the operating forces. Funding of \$2.3 million in FY 1987 and \$165.0 million in FY 1988 is for procurement of two wide support test equipment for SSN-637 and SSN-688 class submarines. Funding of \$7.4 million in FY 1987 and \$9.3 million in FY 1988 is for procurement of emergency field change kits and hardware devices to solve combat systems in existing ships. Funding of \$8.2 million in FY 1987 and \$9.5 million in FY 1988 is for for integrated shipboard combat system certification and continuation engineering for modifications of

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Shipboard Communications (P-1 Line Items 131-137)

(\$ In Thousands) FY 1987

\$67,607

funding in the amount of \$11.7 million budgeted in FY 1987 and \$10.2 million budgeted in FY 1988 are for Sounders, and commence procurement of the OA-9122/SRC antenna coupler group. Funding of \$9.4 million in FY 1987 and \$9.4 million in FY 1988 is for procurement of AN/WSC-3 (LOS) radios, an Ultra High Frequency the High Frequency (HF) Shipboard Communications program to update the capabilities of the current HF Communications Systems. FY 1987 and FY 1988 funds will procure AN/URT-23 transmitters, AN/TRQ-35 HF (UHF) transcelver which provides secure tactical voice communications aboard line-of-sight ships. \$2.0 million budgeted in

support the unique air, sea and land environment of the Explosive Ordnance Disposal (EOD) and Navy Special Warfare (NSW) missions. Funding of 18.0 million in FY 1987 and \$10.9 million in FY 1988 is for procurement of communication systems to automate message processing and distribution functions aboard ship. Funding of aboard ship. Finally, funding of \$4.7 million in FY 1987 and \$4.6 million in FY 1988 is for procurement of \$8.3 million in FY 1987 and \$4.0 million in FY 1988 are for procurement of portable specialized radios to upgraded communication packages for flag configured logistic support ships and equipment for the Military components, antennas and various other items for the integration and completion of communication suites FY 1987 is for procurement of AN/SRC-47 Flight Deck Systems which provide a secure voice communications system for key personnel involved in aircraft operational support functions. Funds in the amount of \$13.5 million in FY 1987 and \$4.7 million in FY 1988 is for procurement of multicoupler interface Sealift Command/Ready Reserve Fleet (MSC/RRF).

Submarine Communications (P-1 Line Items 138-145)

(\$ In Thousands) FY 1987

\$91,546 \$84,

equipment in support of the Extremely Low Frequency Communication Program (Project ELF), a shore-to-ship These resources will procure communications equipment for Command and Control of the Fleet Ballistic Missile (FBM) and Attack Submarine Forces. The \$30.8 million budgeted in FY 1987 is for procurement of communications

\$1.1 million in FY 1987 is for procurement of new precise frequency time standards. Funding of \$5.9 million Per Second (CPS) Kits, Minimum Essential Emergency Communication Network (MEECN) modules and noise reduction \$4.8 million budgeted in FY 1987 and \$2.3 million budgeted in FY 1988 are for procurement of the 1600 Chips circuits. These requirements are part of the VERDIN VLF communications system. Funding of \$2.2 million in procurement of submarine communications equipment consisting of antennas, mast assemblies and buoyant cable FY 1987 and \$1.6 million in FY 1988 is for procurement of equipment to enhance the capabilities of the existing SSN-688 class radio room. Funding of \$27.9 million in FY 1987 and \$28.8 million in FY 1988 is for system which will provide the capability to communicate with submarines at speed and depth. Funds in the amount of \$17.8 million in FY 1987 and \$18.8 million in FY 1988 are for procurement of Low Frequency/Very antennas. Funding of \$.9 million in FY 1987 is for procurement of modular data collection and recording equipment to measure FBM submarines communication performance. In addition, funding of \$27.6 million in in FY 1987 and \$5.2 million in FY 1988 is for procurement of Enhanced VERDIN processors. In addition, Funding of FY 1988 is for procurement of 90 Compact Very Low Frequency (CVLF) receiver terminals to provide ow Frequency (LF/VLF) communications hardware, upgrades and high efficiency amplifiers. miniaturized VLF digitial data processing and receiving on SSN Class Submarines.

Satellite Communications (P-1 Line Items 146 and 147)

(\$ In Thousands) FY 1987

\$43,523 \$56,383

Exchange Subsystems (SSIXS), Combat Direction Finding Communications equipment, Front End Processors for the communications with ships and aircraft through the Ultra High Frequency (UHF) and Super High Frequency (SHF) Navy Modular Automated Communications Systems (NAVMACS) and modification kits for upgrading the Defense Satellite Communications terminals, AN/MSC-64 Navy Terminals, AN/TSC-96 terminals and equipment operating FY 1987 and FY 1988 Satellite Communications procurements provide for adequate command, control and Communications equipment for submarines operating in the artic regions, Submarine Satellite Information Assignment Multiple Access (DAMA) systems, Officer in Tactical Command Information Exchange Subsystems bands. Funding of \$43.5 million in FY 1987 and \$56.4 million in FY 1988 is for procurement of Demand (OTCIXS) equipment, Tactical Data Information Exchange Subsystems (TADIXS) equipment, Satellite with the new KG-84A cryptologic equipment.

Shore Communications (P-1 Line Items 148-159)

(\$ In Thousands) FY 1987

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\$69,436

\$83,760

FY 1988 is for procurement of various communications equipment which supports the Worldwide Military Command and Control System (WWMCCS). Funding of \$2.1 million in FY 1987 and \$3.5 million in FY 1988 is for Funding \$.1 million in FY 1987 and \$2.0 million in FY 1988 is for procurement of AN/FCC-100's which will convert the procurement of replacement and upgrade of microwave facilities in the worldwide Defense Communication System change kits to replace obsolete High Frequency (HF) assets used to enable Naval Telecommunications to be viable in the absence of satellite communications. Funding of \$33.8 in FY 1987 and \$35.5 in FY 1988 is for worldwide Defense Communications system to all digital terminals. Funding of \$.1 million in FY 1987 is for Funding of \$9.7 million in FY 1987 and \$14.8 million in FY 1988 is for procurement of Local Digital funding of \$11.3 million in FY 1987 and \$14.8 million in FY 1988 is for procurement of equipment and field unding in the amounts of \$.1 million in FY 1987 and \$1.0 million in FY 1988 are for procurement of manual procurement of Unit Level Circuit Switches (ULCS) and Advanced Narrowband Digital Voice Terminals (ANDVI) sulte upgrades which will provide functional standardization of Technical Control Facilities. Funding of procurement of Ashore Mobile Contingency Vans (AMCC), a transportable platform for deployment to provide contingency communications. Funding of \$3.7 million in FY 1987 and \$3.3 million in FY 1988 are for Message Exchange (LDMX) terminals, Remote Information Exchange Terminals (RIXT) and Automatic Digital Network (AUTODIN) Standard Remote Terminals (SRT). Funding of \$.4 million in FY 1987 and \$.4 million in Funding of \$6.7 million budgeted in FY 1987 and \$7.1 million budgeted in FY 1988 represents the Navy share of a Joint Service modernization of the Joint Chiefs of Staff (JCS) Communications equipment. Fun uninterruptable power systems (UPS) for installation at various Naval Communication activities worldwide of \$1.5 million in FY 1987 and \$1.2 million in FY 1988 is for procurement of emergency generators and procurement of lo⊌ dollar value items to support numerous Naval Shore Telecommunications programs.

Cryptographic Equipment (P-1 Line Items 160-177)

(\$ In Thousands) FY 1987

\$158,914 \$195,066

The FY 1987 and FY 1988 requests will procure sufficient secure voice equipment to provide secure voice requirements. Funding of \$17.0 million in FY 1987 and \$15.3 million in FY 1988 is for procurement of the Single Audio System (SAS), a system where all shipboard radio voice subscribers have access to either a plain or cryptographically covered circuit, on an as required and programmed basis. The SAS will provide Funding of \$17.0 million in FY 1987 and \$15.3 million in FY 1988 is for procurement of the manual voice switching suites for smaller ships and an automated switching suite for larger ships. protection to an additional share of Navy's identified critical narrowband/wideband secure voice

15.0 million in FY 1987 is for procurement of the TSEC/KG-44 equipments for the Defense Meteorological Space ISEC/KW-46 which will secure record and data communications for the Navy Fleet Broadcast System. Funding of Marine Corps Ultra High Frequency Multi-Channel Communications in the Position Location and Reporting System *EMPEST test equipment. Funding of \$.5 million in FY 1987 and \$.5 million in FY 1988 are for procurement of Program. Funding of \$7.9 million in FY 1988 is for procurement of the TSEC/KG-58/KGV-6, required to secure Marrowband Digital Voice Terminal (ANDVI) which satisfies requirements for secure narrowband communications communications. Funding of \$12.2 million in FY 1987 and \$15.5 million in FY 1988 is for procurement of items of relatively low dollar value to meet special operational requirements. Funding of \$2.5 million in the KYK-13 battery operated transfer devices and the KOI-18 which is a lightweight battery operated device 33.5 million in FY 1988 is for procurement of the TSEC/KG-84, a general purpose key generator capable of satisfying a wide variety of requirements and is designed to serve as the future standard link encryption unding of \$28.4 million in FY 1987 and \$34.5 million in FY 1988 is for procurement of COMSEC devices for the TRI-TAC switches. Funding of \$.4 million in FY 1987 and \$.4 million in FY 1988 is for procurement of \$1.2 million in FY 1987 and \$1.4 million in FY 1988 is for procurement of the TSEC/KG-81, a full-duplex, which cannot be met by existing equipment. Funding of \$8.8 million in FY 1987 is for procurement of the presently provided by AUTOSEVOCOM I. New features include digital transmission, end to end secure voice device for low to medium speed record and/or data systems. Funding of \$20.4 million in FY 1987 and \$30.2 million in FY 1988 is requested for TSEC/KY-57/58, a wideband, push-to-talk (half-duplex) tactical Y 1987 is for procurement of the KGR-96 which provides encryption/decryption for a satellite data link. switching systems utilize a switch which is modularly expandable to suit the needs of various platforms. Funding of \$13.6 million in FY 1987 and \$29.9 million in FY 1988 is for procurement of TSEC/KY-71/72 speech security equipment for use in VHF/UHF communications. Funding of \$6.3 million in FY 1987 and \$5.8 million in FY 1988 is for procurement of the TSEC/KYV-5, the Cryptographic module for the Advanced high speed digital data encryption system for bulk encryption of the most vital DCS links. Funding of with conferencing, better voice quality, and lower bit rate. Funding of \$27.9 million in FY 1987 and PLRS). Funding of \$14.8 million in FY 1987 and \$15.4 million in FY 1988 is for procurement of the equipments which will provide subscriber expansion and improvement over the secure voice capability SEC/KGV-11, a general purpose communications security module designed for use with wide spectrum or reading a light-level punched type.

Cryptologic Equipment (P-1 Line Items 178-183)

(\$ in Thousands) FY 1987

\$12,008

Teletype replacement equipments. Funding of \$1.6 million in FY 1987 and \$9.7 million in FY 1988 initiates Funding of Intelligence Communications equipments, and continues procurement of the Special Intelligence Ship-Shore These resources provide equipment to support Tactical Cryptologic missions and functions. Fu \$.8 million in FY 1987 and \$2.0 million in FY 1988 continues procurement of the Carry-on Special





and/or continues procurement of Carry-on Tactical Cryptologic ancillaries, equipments and systems for the Ships Signals Exploitation Space (SSES) aboard U.S. Navy combatants. Funding of \$5.6 million in FY 1987 and Funding of \$1.2 million \$7.1 million in FY 1988 continues procurement of various replacement and cryptologic training equipments for use at U.S. Navy shore sites, training command, and/or aboard U.S. Navy combatants. Funding of \$1.2 million In FY 1987 and \$2.1 million in FY 1988 continues procurement of cryptologic systems for use at 81 U.S. Navy procurement of cryptologic systems for use at U.S. Navy shore sites to ensure that cryptologic technicians maintain proficiency in various languages and manual morse. Funding of \$2.0 million in FY 1987 and \$2.1 million in FY 1988 continues procurement of cryptologic support systems to be installed at various worldwide shore sites and are used in conjunction with afloat cryptologic systems to ensure that accurate ashore reserve training sites. Funding of \$.8 million in FY 1987 and \$1.0 million in FY 1988 continues tactical data bases are maintained.

Other Electronic Support (P-1 Line Items 184-186)

(\$ In Thousands)

FY 1987

\$8,099 \$5,252

dedicated test stations, industrial plant equipment, test jigs and fixtures for selected depot rework facilities in support of the new maintenance strategies for the FFG and DD (EOC) Class ships (FY 1987 \$7.1 million; FY 1988 \$5.3 million). In addition, funding of \$1.0 million in FY 1987 is for procurement of war reserve communication equipment, Radiac and ancillary equipments for Advanced Base Functional Components This funding will procure critical repairable equipments in support of planned maintenance schedules and corrective maintenance actions for the FFG (LO-MIX) and DD (Engineering Operation Cycle) Class ships; and

Spares and Repair Parts (P-1 Line Item 187)

FY 1987 and FY 1988 funds for spares and repair parts were transferred to Budget Activity 8 beginning in

Budget Activity S. AVIATION SUPPORT EQUIPMENT SULIARY OF BUDGET PLAN

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	FY 1985 ACTUAL	FY 1986 EST INATE	FY 1987 ESTIMATE	FY 1588 ESTINATE	JUSTIFICATION PAIDE
SONOBUOYS GENERAL PURPOSE BONES AIR LAUNCHED ROCKETS	325, 552 152, 510 44, 565	307,817 563,550 106,304	235,482 252,625 57,687	222, 792 545, 675 45, 220	¥ 38
AIRCRAFT HACHINE GUN ARFUNITION BIGEYE CHENICAL WEAPON GATOR	26,216 24,309	13,641	21,160 28,533 42,565	26,463 40,469 34,565	39.5 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0
MISCELLANEOUS OKLÄÄNCE AND SUPPORT WEAPONS RANGE SUPPORT ECHIPMENT	59, 16	129,144	3,458	132,556	5 5
AIRCRAFT LAUNCHING AND RECOVERY EQUIPMENT AIRCRAFT RFARMING	₹5°0€	098,43	316, 45	47,565	- 2 2
EQUIPMENT AIRBORNE MINE COUNTER- MEASURES EQUIPMENT	20,000	54,730 27,054	.18 ,63 .	55,16 575,15	9 .5
LAMPS PK III SHIPBGAKU EGUIPNENT GTHER AVIATION SUPPOKT SPARES AND REPAIR PAKTS	55,455 8,976 23,131	45,893 53,206 	34,593 48,244	41,665 57,967 -	35 35 40
TCTAL BUDGET PLAN	931,874	1,141,428	963,514	1,143,586	



Budget Activity 3. AVIATION SUPPORT EQUIPMENT

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(\$ In Thousands)
FY 1988 Estimate \$1,143,586
FY 1967 Estimate \$ 963,514
FY 1986 Estimate \$1,141,428
FY 1965 Actual \$ 951,874

Purpose and Scope of Work:

aircraft and other aviation support which includes ground electronics equipment, aircraft launching and retrieving equipment, photographic equipment, recommaissance and electronic Warfare processing and amalysis Marine Air Wings, except guided missiles funded under the Weapons Procurement, Navy (WPN) appropriation. I Budget Activity 3 finances the procurement of all air-delivened ordnance required for havai forces and equipment and miscellaneous other categories.

Justification of Funds.

Sonobuoys (Includes P-1 Line Item Nos. 188-195)

(\$ In Thousands)
FY 1987
\$235,462
\$222,792

The FY 1987 and FY 1988 Sonobuoy procurement has been computed considering the number of ASW carrier air groups and shore based ASW patrol squadrons to be supported, actual and planned peace-time usage for these forces and the necessary training allowance requirements. User aircraft include the S-3A, P-3, SH 2L and sonobuoy used to obtain acoustic and sound pressure level data and to measure ambient noise (FY 1987, \$2.9 million, FY 1988, \$3.2 million), the AN/SSQ-62 (LICASS) Sonobuoy, an active directional sonobuoy (FY 1987, \$35.3 million; FY 1988, \$21.3 million), the AN/SSQ-75 expendable reliable acoustic path sonobuo water (ERAPS), an air gropped, expendable, deep water active detection system (FY 1966, \$14.4 million) and the AN/SSQ-77 (VLAD) Sonobuoy, a passive directional sonobuoy utilizing a line array of omni-directional hydrophones and a DIFAR element. The directional beam patterns are formed from the line array to discriminate against noise and the DIFAR enables determination of the azimuthal bearing of detected sound SH-3 series. Specific sonobuoys to be procured in FY 1987 and FY 1988 include the AN/SSG 36 Bathythermograph Sonobuoy, an air dropped bathythermograph transmitting set that provides a vertical watemperature profile (FY 1987, \$4.7 million, FY 1988, \$4.6 million), the AN/SSG-53 (DIFAR), a passive directional sonobuoy used during the target localization phase of the Air ASM mission (FY 1987, \$100.6 million, FY 1986, \$75.4 million), the AN/SSG-57 (Special Purpose) Sonobuoy, a calibrated AN/SSG forces and the necessary training allowance requirements.

energy acoustic sources used for many applications including bottom mapping, long range signal transmission and position fixing (FY 1987, \$1.2 million, FY 1968, \$1.3 million). (FY 1987, \$61.4 million; FY 1988, \$70.3 million). Funds are also required for procurement of the AN/SSG-86 (DLC) Sonobuoy, a one-way acoustic communications sonobuoy (FY 1987, \$2.8 million, FY 1588, \$1.6 million) and the Low Cost Sonobouy program, an effort to streamline design specification while using high volume production techniques in order to arrive at a unit production cost yoal of \$50 in quantities of 500,000 units per year (FY 1987, \$26.6 million; FY 1986, \$26.7 million). The FY 1987 and FY 1988 requests also include funding to support procurement of Signal Underwater Sound (SUS) devices which are expendable, high

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General Purpose (G.P.) Bombs (P-1 Line Item Nos. 200-204, 209)

(\$ In Thousands)
FY 1987
\$252,825

requested to procure various types of fins for these G.P. bombs as well as muscellaneous component parts and production support. \$44.7 million in FY 1988 is for the procurement of SKIPPER, a Rocket Powerea Standoff Laser Guided NK-83 Bomb. \$6.3 million in FY 1988) is for the procurement of SKIPPER, a Rocket Powerea Standoff Laser Guided Bomb Kits, which will be used to provide terminal guidance to the NK-82 general Purpose bomb. \$35.3 million in FY 1987 (\$35.9 million in FY 1988) is for WALLEYE, an air-tu-surface TV guided glide bomb. WALLEYE funds will procure extended range (ER) and data link (EL) hardware for the Conversion of WALLEYE I weapons to the ER/DL configuration. \$8.5 million in FY 1987 (\$8.7 million in FY 1988) is requested for procurement of FMU-140 proximity fuzes to retrofit the existing inventory of ROCKEYE II MK 20 506-1b free fall cluster bombs. The Practice Bombs procurement is \$5.2 million in FY 1985) for the NK-76 and BDU-48 Practice Bombs, \$11.6 million in FY 1985 for Cartriage Simulant Units (CXU-3, CXU-4 and NK-4 smoke signals), \$5.2 million in FY 1985 (\$5.2 million in FY 1988) for Simulant Units (CXU-3, cXU-4 and NK-4 smoke signals), \$6.2 million in FY 1986) for production support services. The funding request is for the procurement of the MK-83 thermally protected bowb, the BSU-85 Air Inflatable ketarder Fin for the MK-82 G.P. Bomb, the FMU-139/B electronic fuze used on FK-60 series G.P. bombs, the MK-15/BSU-86 retard fin and the BSU-33 high drag mode fin both for the MK-82 G.P. Bomb. \$27.1 million is budgeted in FY 1987 (\$36.0 million in FY 1988) for procurement of the MK-83 thermally protected G.P. Bomb. In FY 1987, \$18.7 million (\$15.5 million in FY 1988) is budgeted to procure the BSU-85 Air Inflatable Retarder Fin. \$54.7 million is budgeted in FY 1967 (\$52.0 million in FY 1988) will procure the FMU-139/B electric fuze. \$10.0 million budgeted in FY 1967 (\$10.7 million in FY 1988) is for the PSU-30 proximity sensor. \$26.6 million is requested in FY 1968 for procurement of PBX fill for the MK-82 G.P. Bomb. The remaining \$16.4 million in FY 1987 (\$24.3 million in FY 1988) is

Air Launched Rockets (P-1 Line Item Nos. 205-206)

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(\$ In Thousands) FY 1987

\$57,687

\$45,220

This category consists of the ZUNI 5.0" Rocket and 2.75" Rocket systems. The ZUNI and 2.75" rocket systems are air-to-ground weapons consisting of a variety of warheads and are fired from a four-round cylindrical launcher. Both rocket systems are cleared for use on the following USN and USNC aircraft: A6, A7, F4, F/A 18, AH1, AV8 and OV10. Funding of \$26.3 million in FY 1967 and \$27.1 million in FY 1588 is requested for procurement of the air-to-ground Zuni 5.0" Wrap-around Fin Rocket system. In addition, funding of \$31.4 million in FY 1987 and \$21.4 million in FY 1986 is budgeted for the 2.75" Folding Fin Rocket system.

Aircraft Machine Gun Ammunition (P-1 Line Item No. 208)

(\$ In Thousands)
FY 1968
\$21,180

A-6, A-7, F-8, F-14 and AV-E) gun systems. Funding of \$17.5 million in FY 1967 and \$21.0 million in FY 1968 is requested for procurement of 20mm practice gun anomalition used with various aircraft (A. 4, A-6, A-7, F-8, and F-14) gun systems for fleet training to maintain pilot proficiency. Funding of \$.5 million in FY 1967 and \$2.9 million in FY 1988 is to procure 25mm HEI and API service amountion for war reserve requirements for the AV-8. Funding of \$.4 million in both FY 1967 and FY 1988 is provided for container procurement. Included in this program is \$1.5 million in FY 1967 and \$1.4 million in FY 1967. Funding of \$17.5 million in FY 1967 and \$21.0 million in FY 1968 .8 million in FY 1988 for a product improvement effort to increase the safety and reliability of the 25mm In addition, funding of \$1.2 million is provided in FY 1987 and This category includes procurement of 20mm and 25mm anmunition used with various aircraft (A.4, uze in addition to reduciny its cost. Support of ammunition procurements.

BIGEYE Chemical Weapon (P-1 Line Item No. 215)

(\$ In Thousands) FY 1987 \$28,533 \$40,489 The BIGEYE is an air launched binary spray chemical bomb. It generates and delivers a persistent nerve agent from two non-toxic chemicals. Bigeye will provide enhanced safety and reliability on the existing inventory of aging chemical weapons. The FY 1987 request of \$28.5 million provides funds for the first year of production of the BIGEYE

Thousands)	8	\$34,065
In		
\$) 237 73	000	\$45,565

CONTRACTOR SECURES

The \$42.6 million requested in PY 1987 and \$34.4 million in PY 1988 is to procure GATOR CBU-78 500 pound s. The GATOR weapon consists of a MK 7 dispenser that contains a mixture of an escatterable anti-tank and anti-personnel land mines.

218) l'iscellaneurs Ordnance and Support (P-1 Line Item Nos. 267, 210-214, 216

Thousands) FY 1986	\$132,558
(\$ II) FY 1987	869, 458

and other miscellaneous ordnance and support. Funding of \$1.5 million in FY 1987 and \$1.1 million in FY 1986 is requested for the Parachute Flare Program to procure the SUD 25 parachute flare. Funding of \$25.3 million in FY 1988 are for the procurement of impulse cartriages used for impluse cartiidyes, ejecting air-iauncheu weapons and other curtriuge actuated devices. Funding of \$7.5 million in FY 1987 and \$8.8 million in FY 1986 is requested for rocket motors and catapults used for ejecting aircrewmen from disabled aircraft. Funding of \$40.9 million in FY 1967 and \$79.8 million in FY 1986 is requested for procurement of airborne expendable countermeasures including chaff, infrared tlares and expendable jammers to meet training and war reserve (mobilization) requirements. Funding of \$2.6 million in FY 1987 and \$8.5 million in FY 1968 is requested for JAiO (Jet-Assisted Take Off) rockets used to launch aircraft and targets and to propel sleds used in testing. The remaining \$11.3 million in FY 1967 and \$15.3 million in FY 1968 are requested for miscellaneous ordnance, including such items as Marine Location Markers, Smokey SAN Simulator, and Defense Nuclear Agency material. budgeted procurements will include chaff decoy heads for electronic countermeasures

Weapons Range Support Equipment (P.1 Line Item No. 219)

(* In Thousands)	FY 1582	S!3 19\$
ur 🖈	FY 1587	\$46,433

Budgeted procurements in FY 1987 include the following (1) \$10 S will ion for Aircrew Electronic Warfare Ranges at Fallon, MV and Pinecastle, FL, (2) \$4.0 million for system replacement and madernization,

total \$6.3 million. Procurements in FY 1988 include the following (1, \$5.3 million for a Range Electronic NV; (4) \$4.7 million for upgrading the East Coast Tactical Airclew Combat Training System (TACTS at Oceana VA; (5) \$16.5 million for Range Operations Control System Replacement at PARF and (6) \$2.0 million for an Automated Precision IFF Surveillance System (APIS) at PMMF. Cther range equipment requirements in FY 1987 (2) \$17.9 million for Aircrew Electronic Warfare Ranges at Fallon, NV and Pinecastle, FL, (3) \$3.6 million provides a complete range safety and operation control picture for the Pacific Nissile Runge Facility (PNRF) (6) \$3.0 million for procurement of state of the art telecommunications equipment at PNRF and (7) for systems replacement and modernization (4) \$2.6 million for upgrading the West Coast Tactical Aircrew Combat Training System (TACTS) at Fallon, NV; (5) \$10.8 million for a Naval Tactical Data System which Warfare Simulator (REWS) to be used for surface and air flet Electronic Warfare (EW) training exercises, West Coast Tactical Aircrew Combut Training System (TACIS) at Fallon (PNRF) (6) \$3.0 million for procurement of state of the art telecommunications equipment at PNRF \$3.4 million for an Underwater Tracking Range Computer (UTRC) at St. Croax. Other range equipment requirements in FY 1986 total \$10.9 million. (3) \$1.4 million for upgrading the

Aircraft Launching and Recovery Equipment (P-1 Line Item Nos. 220, 222-223)

(\$ In Thousands)
FY 1987
534,962 \$47,569

Marine Corps' Expeditionary Airfield (EAF) systems are funded under this program. Funding of \$1.3 million in FY 1987 and \$5.2 million in FY 1988 are for EAF support equipment to correct known deficiencies. to modernize the EAF equipment to enhance maintainability, reliability and safety of flight operations, and to keep pace with advanced aircraft requirements. Funding of \$33.7 million in FY 1987 and \$42.5 million in FY 1988 is for the procurement of major catapult, arresting year and visual landing aids equipment for aircraft carriers and other aircraft capable ships. Catapult, Arresting Gear, and Visual Landing Aids Support for the Navy's airciaft cairiers, and the

Aircraft Rearming Equipment (P-1 Line Item No. 221)

FY 1967 FY 1588 F38,830 \$\frac{1}{4}\$

AV-8 aircraft. The use of this equipment permits the rapid weapons loading and reloading of strike aircraft with a minimumm number of flight deck personne! (\$38.8 million in FY 1987 and \$51.0 million in FY 1988). ashore and afloat, to transport and perform maintenance on weapon and expiosive ordnance components. ASE and and WSE is utilized to accomplish the improved rearming rate (IRk) of A-6 EA 6 A 7 F-4, F 14, F 18 and launched weapons and to perform maintenance on aircraft inscalled armament systems. MSE equipment is used The Aircraft Rearming Equipment program provides funding tor armament support equipment (MSE) and Weapons support equipment (MSE). ASE is equipment utilized ashore and ufloat to load and/or download air

Airborne Mine Countermeasures Equipment (P-1 Line Item No 227

SANDAR PROGRAM AND PROGRAM SERVING BORDERS FOR THE SANDAR AND THE PROGRAM AND SERVING BORDERS FOR THE SANDAR SERVING S

FY 1967 FY 1988	\$31,57~
FY 1967	\$32,304

FY 1967 and FY 1968 (\$1 9 and \$.9 miliion respectively) are modification funds in support of ECPs on AMCM This program funds various mine countermeasures equipments operated Ly KH/CH-53D/NH-53E helicopters. Funding of \$32.3 million requested in FY 1987 will procure airborne mine countermeasures (AMCM) ton provision kits which provide the necessary removable equipment that allow the helicopter to tow an AMCM system (\$6.7 million), procure three ALCM Detachment Support Equipment sets, and procure ten AN/ALQ 141 provision kits (\$4.2 million); and three AN/ALQ-166 countermeasures sets (\$26.5 million). Included in Sonai Countermeasure sets (\$12.5 million). \$31.6 million requested in FY 1988 will procure AMCM tow production systems and magnetic minesweeping cable procurement.

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Line I
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Equipment
Suippoard
III
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1 AMPS MK

(\$ In Thousands) FY 1987	\$41,663
(\$ Ir FY 1987	\$34 853
•1	

A multi-appropriation funded program, LAMPS MK III shipboard equipment funded by the OPN appropriation is that equipment which is to be installed in existing ships being buckfitted with the LAMPS MK III weapon system. This equipment includes (1) the AN/SQ 28 (V), an electronic sonar signal processing system is in FY 1988); (2) the AN/SRQ-4, a shipboard terminal data transmission device (6 in FY 1887 and 6 in FY 1988); and (3) HLS, the shipboard helicopter langing system for the LAMPS MK III helicopter (6 in FY 1987 and 7 in FY 1988), and support for the FY 1987 and FY 1988 hardware procurements.

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224-226,	
Nos.	
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Line	l
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Support	
Aviation	
0ther	

(\$ In Thousands) FY 1987	196, 75\$
FY 1987	\$48,244

Funds budgeted include the procurement of Neteorological equipment, Other Photographic equipment, Survival equipment, REWSON, Stock Surveillance equipment, and Other Aviation Support equipment. The Meteorological equipment program finances the procurement of meteorological equipment required by the Navy to gather worldwide weather data, and to rapidly disseminate weather information to Navy and Marine Corps users. The information provided is required for weather forecasting, flight safety and planning fleet operations. The Navy, in addition to providing specialized weather service peculiar to its needs, Neteorological equipment to be procured in (\$19.0 million in FY 1987 and \$30.7 million in FY 1988). Other Photographic equipment funds the procurement of photographic equipment for all Navy, shore and seaborne photographic laboratories, plus various intelligence activities (\$2.1 million in FY 1987 and \$1.8 million in FY 1988). The Survival equipment reconnaissance squadrons, (2) surface and subsurface photo collection equipment, (3) analytical equipment to requested to buy equipment in support of the REWSCN (Reconnaissance Electronic Warfare, Special Operations and Naval Intelligence) program. Procurement includes. (1) readout equipment for ship and shore monitor, measure, and assess the condition of current Navy stocks of air-launched missiles and air-launched ordnance and ammunition (\$2.0 million in FY 1987 and \$3.5 million in FY 1988). EUE of the funds support missile inventory quality evaluation (surveillance) efforts and 20% support air-launched ordnance evaluation, including bombs, rockets, and cartriage actuated devices. Material readiness factors such as combatants. The Stock Surveillance equipment line provides funds for procurement of equipment needed to both FY 1987 and FY 1988 includes equipment for the high-speed dissemination of weather information and miscellaneous equipment to moniton and report weather conditions at sea and shorebased activities reliability and serviceability are measured by this effort. In addition, OPN Budget Activity (B.A.) #3 funds the procurement of fleet telemetry equipment which is used to receive, record and analyze missile \$1.6 million in FY 1988), and chemical, biological, radiological personal protective equipment (\$12.4 million in FY 1987 and \$15.1 million in FY 1988) for use by aircrewmen. The Survival equipment program also includes funds for support equipment, Integrated Logistics Support and Production Support [\$1.] million in FY 1987 and \$.8 million in FY 1988). \$1.9 million in FY 1987 and \$2.4 in FY 1988 is telemetry performance data providing information to evaluate training/test exercises (\$5.7 million in FY 1987 and \$3.2 million in FY 1988) within the Other Aviation Support equipment program. Program will finance procurement of the PRC-90 l Aircrew Survival Radio (\$4.1 million in FY 1987 and support these collectors and (4) equipment of a photographic and analytic nature for use by ship coordinates services with the DOD and civilian weather agencies.

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Spares and Repair Parts (P-1 Line Item 232)

Beginning with FY 1986, Aviation Support equipment spares and repair parts were consoludated with all other OPN funded spares and transferred to Budget Activity 8.

BUDGET ACTIVITY 4: ORDNANCE SUPPORT EQUIPMENT SUMMARY OF BUDGET PLAN (In Thousands)

RECENT TRANSPORT PRODUCED SUSPENSE EXPOSES RECEIVED RECEIVED RECEIVED RECEIVED RECEIVED

BUDGET PLAN (Amounts for Procurement Actions Programmed)

	FY 1985 ACTUAL	FY 1986 ESTIMATE	FY 1987 ESTIMATE	FY 1988 ESTIMATE	JUSTIFICATION PAGE
SHIP GUN AMMUNITION	195,560	219,092	306,356	716,182	42
SHIP GUN SYSTEMS EQUIPMENT	42,366	58,695	40,118	19,590	42
SHIP MISSILE SYSTEMS EQUIPMENT	410,099	506,726	483,617	587,356	43
FBM SUPPORT EQUIPMENT	70,431	146,893	105,318	124,997	44
ASM SUPPORT EQUIPMENT	90,372	132,389	148,767	192,263	44
OTHER ORDNANCE SUPPORT EQUIPMENT	30,125	30,596	36,067	46,795	44
OTHER EXPENDABLE ORDNANCE	127,921	147,089	139,577	204,124	45
SPARES AND REPAIR PARTS	93,691	1 1	!	;	45
TOTAL BUDGET PLAN	1,060,565	1,241,480	1,259,820	1,463,102	



Budget Activity 4: Ordnance Support Equipment

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(\$ In Thousands)

FY 1988 Estimate - \$1,463,102

FY 1987 Estimate - \$1,259,820

FY 1986 Estimate - \$1,241,480

FY 1985 Actual - \$1,060,565

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Purpose and Scope of Work

Funds provided in this budget activity are for Ship Gun Ammunition, Ship Gun and Ship Missile Systems equipment, Fleet Ballistic Missile and Anti-Submarine Warfare Support equipment, Other Ordnance Support equipment, and Other Expendable Ordnance.

Justification of Funds

Ship Gun Ammunition (Includes P-1 Line Items 233-240)

(\$ In Thousands) FY 1987 \$306,356 \$287,977

The FY 1987 request of \$306.4 million and FY 1988 request of \$288.0 million for Ship Gun Ammunition is for procurement of Three-inch and Five-inch ammunition, 20mm ammunition for the Close-In Weapon System Ammunition. The primary mission for the 76mm ammunition is for use against air targets but it is also for surface and shore targets. The Five-inch guided projectile will provide precisely accurate naval gunfire against targets ashore and at sea, and can be fired from MK-45 Mod I Five-inch/54 caliber gun mounts. use against surface and shore targets. The Sixteen-inch ammunition is for use by battleships against (CIMS), 76mm ammunition, Five-inch Guided Projectile, Sixteen-inch ammunition, and Other Ship Gun

Ship Gun Systems Equipment (Includes P-1 Line Items 241-242)

(\$ In Thousands)

FY 1987

\$40,118

\$19,590

ordnance alterations to improve reliability and maintainability of the MK-86 and MK-68/56 surface Gun Fire Control Systems. The funds for Coast Guard Gun Systems procure two MK-92 Mod I Fire Control Systems to be The funds requested for Gun Fire Control equipment are for the procurement of equipment and \$20.9 million for Coast Guard Gun Systems. In FY 1988, \$19.6 million is requested for Gun Fire Control Gun Fire Control equipment and The FY 1987 request of \$40.1 million represents \$19.2 million for Installed on modernized WHEC (Hamilton Class) Coast Guard vessels.

Ship Missile Systems Equipment (Includes P-1 Line Items 243-252)

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(\$ In Thousands) FY 1987

\$483,617

\$587,356

t on the FFG-7 Class ships. The Point Defense Support equipment request of \$42.3 million in FY 1987 and \$20.6 million in FY 1988 will provide air defense of selected ships by upgrading the NAIO SEASPARROW Surface provide for equipment used to simulate projected enemy jamming tactics and techniques during Surface Warfare The FY 1987 request of \$483.6 million and the FY 1988 request of \$587.4 million are for Ship Missile Systems (SMS) programs. The MK-92 Fire Control System request of \$3.5 million in FY 1987 and \$45.9 million \$13.0 million and \$18.4 million respectively for Harpoon Support equipment will be used to procure Ordnance CG/SM-2 performance improvements (Standard Missile (Extended Range) Block I missile capability), New Threat Upgrade performance improvements (Standard Missile 2 (Extended Range) Block II missile capability) and capability to fire the SM-2 (MR) missile; and improvements to the Guided Missile Launching System MK 13 Mod special test equipment and modifications to incorporate specific improvements to increase reliability. The submarines the capability to launch the TOMAHAWK Cruise Missile. The Vertical Launch Systems request of \$137.8 million in FY 1987 and \$147.0 million in FY 1988 will provide for installation on DD 963, CG 47, and including fire Control System MK 76, Weapons Direction System MK 14, Guided Missile Launching System MK 10, Communications Tracking Set AN/SYR-1 and Ancillary support equipment. These modifications provide for equipment program are for improvements to the CGN/DDG/SM-2 Weapon System including fire Control Radar Mods. Weapons Direction System (WDS MK-14), AN/SYR-1 Downlink Receiver and Ancillary Modifications to provide and \$41.3 million in FY 1980 will provide shore based assets for the AEGIS Combat System∕Educational Center equest also includes procurement of the launch system to fire the 5" RAM Missile and follow-on production. to support the Battle readiness of AEGIS Cruisers including AEGIS Combat System Center equipment and AEGIS Control Systems (CMCS), and Armored Box Launchers for surface ships. The FY 1987 request of \$11.9 million Educational Center equipment. The Surface TOMAHAWK Support equipment request of \$109.6 million in FY 1987 The AEGIS Support equipment request of \$60.6 million in FY 1987 Missile System including modification to fire the RIM-7M Monopulse Missile, and procurement of associated and the FY 1988 request of \$9.0 million for the Submarine TOMAHAWK Support equipment program will procure In FY 1988 will provide for improved readiness of the MK-92 system. The FY 1987 and FY 1988 requests of :Y 1987 and \$84.8 million in FY 1988 will provide for modification to the TERRIER Missile Weapon Systems requests in FY 1987 and FY 1988 of \$47.1 million and \$132.2 million respectively for the TARIAR Support he \$1.1 million requested in FY 1987 and \$1.1 million requested in FY 1988 for Airborne ECM/ECCM will Alterations, primarily the Block 1C ORDALT. The TERRIER Support equipment request of \$56.8 million in modifications to the MK-117 Fire Control System for SSN 637 and 688 Class submarines to provide these associated reliability/maintainability/availability improvements in CG-16/26/N9/N25/N35 Class ships. and \$87.1 million in FY 1988 will procure the Surface Vertical Launching System (VLS), Common Weapons Systems evaluations and Fleet exercises.



006-41 class ships.

Strategic Platform Support Equipment (Includes P-1 Line Items 253-254)

FY 1988 (\$ In Thousands) FY 1987 \$124,997

\$105,318

Support equipment provides funding for ordnance support, ship alterations and test equipment for the TRIDENT submarine and TRIDENT Refit Facility (TRIREFFAC) located at Naval Submarine Base (NSB), Bangor, Washington and numerous support facilities. In addition, funds are requested for the procurement of Strategic Weapon System (SWS) equipment for deployed SSBNs and shore support sites to support the POSEIDON (C-3), TRIDENT I (C-3), TRIDENT I (C-4) and TRIDENT II (C-5) programs and procurement of Strategic Weapons System equipment The FY 1987 request of \$105.3 million and the FY 1988 request of \$125.0 million for Strategic Platform and ship system ordnance equipment needed to establish the Naval Submarine Base, Kings Bay Georgia.

ASW Support Equipment (Includes P-1 Line Items 255-259)

(\$ In Thousands)

\$192,263 \$148,767

Warfare Support equipment for procurement of the All Digital Attack Center (ADAC), which includes FCS MK 117 increased Display and Conversion for Over the Horizon targeting, Advanced Capability (ADCAP) Torpedo, and FCS MK 117/CCS MK-1 Improvements. In addition, FY 1987 and FY 1988 funding will support procurement of as well as provide for the procurement of Anti-Šubmarine Warfare torpedo exercise and shore support equipment, range equipment for Fleet Operational Readiness Accuracy Check Sites (FORACS) and Sensor Accuracy various upgrades to submarines and surface torpedo tube equipment, Anti-Submarine Rocket (ASROC) launchers, these funds will also support procurement of eight MK-ll6 Mod 5/6 systems in FY 1987 and seven in FY 1988, The fY 1987 request of \$148.8 million and FY 1988 request of \$192.3 million is for Anti-Submarine various test equipments, and procurement of equipment to support the MK-113 Mod 9 Improvement program Check Sites (SACS), and test equipment to support Weapon System Accuracy Trails (WSAI).

Other Ordnance Support Equipment (Includes P-1 Line Items 260-267)

(\$ In Thousands)

FY 1987

\$36,067

The FY 1987 request of \$36.1 million and the FY 1988 request of \$46.8 million for Other Ordnance Support Seaborne Targets, and Stock Survelllance equipment. The request in both FY 1987 and FY 1988 for Explosive equipment are for various ordnance programs not budgeted under other sub-budget activities within this budget activity. Some of the major programs include: Explosive Ordnance Disposal equipment, Unmanned Ordnance

resources for determining safety, reliability, readiness, and service/shelf life of both stored and deployed ordnance. The request for Unmanned Seaborne Targets provides Surface Seaborne Targets for Fleet training, programs included in the FY 1987 and FY 1988 request are Swimmer Weapons Systems, Anti-Ship Missile Decoy Disposal equipment provides for procurement of necessary EOD tools and equipment required for initial outfitting of EOD units. These equipments provide ordnance location and safe disposal of unexploded with procurement of Septar Targets and Floating Automatic Scoring Target (FAST) hulls in FY 1987 and continuing in FY 1988. The request in FY 1987 and FY 1988 for Stock Surveillance equipment provides Navy and Marine Corps tactical weapons and weapon systems and the causes for their degraded state. System, Calibration equipment, and Other Ordnance Training equipment

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Other Expendable Ordnance (Includes P-1 Line Items 268-274)

FY 1988 (\$ In Thousands) FY 1987

\$139,577

the QUICKSTRIKE request in FY 1987 and FY 1988 provides for the procurement of the 2000 1b MK-65 service and amminunition in support of active naval vessels, and for active and reserve special warfare forces including funding for Defense Nuclear Agency (DNA) material for procurement of trainers and support equipment for the devices. The request for Fleet Mine Support Equipment in FY 1987 and FY 1988 provides for the procurement reserve forces, and a combat reserve and/or material pipeline of ammunition quantities based on a "Days of Anti-Ship Missile Decoys deployed from the MK-36 Decoy Launching System. The FY 1987 and FY 1988 request provides for SEA GNAT RF Decoys and MK-186-IR Decoys. Also included under Other Expendable Ordnance is other expendable ordnance. The Small Arms and Landing Party Ammo request in FY 1987 and FY 1988 provides The FY 1987 request of \$139.6 million and the FY 1988 request of \$204.1 million is for procurement of replacement of Non-Combat Expenditure Reguirements (NCER), initial allowance for all approved active and clearance units, cargo handling and port groups, naval security groups, and naval special warfare groups Support" analysis. The FY 1987 and FY 1988 request for Pyro and Demo Material provides pyrotechnics and demolition materials for all active naval vessels, amphibious and mobile construction battalions, harbor non-service mines to include the MK-58 Target Detecting Devices (TDDs) and associated safety and arming provides for support of fleet proficiency training, mine warfare and mine countermeasures training, and certification of ships/depots with respect to nuclear capability and for training and certification of M-80 Series (TOMAHAWK) and other nuclear weapons systems in order to conduct nuclear safety studies Improved stockpile mine performance. The Shipboard Expendable Countermeasures program provides for of material and production support services for the assembly of mines in stockpile. weapons maintenance and handling personnel

Spares and Repair Parts (Includes P-1 line Item 275)

The funds requested for initial spare parts support new end items and the funds requested for replenishment spare parts replace those consumed by the Fleet. Funding for this program was transferred to Budget Activity 8 in FY 1986.





(A	mount for Pro	Budget Plan (Amount for Procurement Actions Programmed)	ns Programme	1	
	FY 1985 ACTUAL	FY 1986 ESTIMATE	FY 1987 ESTIMATE	FY 1988 ESTIMATE	JUSTIFICATION PAGE
Passenger Carrying Vehicles	4,674	10,180	10,925	10,068	47
Trucks, Trailers, Construction and Maintenance Equipment	54,871	92,396	88,733	110,106	48
Amphibious Equipment and Combat Construction Support Equipment	66,841	82,519	42,283	51,374	48
Fleet Hospitals	69,233	27,654	110,548	82,723	49
Other Equipment	33,223	16,641	14,771	23,278	49
Total Budget Plan	228,842	229,390	267,260	277,549	

Budget Activity 5: Civil Engineering Support Equipment

(\$ In Thousands)
FY 1988 Estimate - \$277,549
FY 1987 Estimate - \$267,260
FY 1986 Estimate - \$229,390
FY 1985 Actual - \$228,842

Purpose and Scope of Work

Funds provided under this budget activity are for the procurement of passenger carrying vehicles, trucks specialized equipment, combat construction support equipment, mobile utilities support equipment, fleet moorings, pollution control equipment, and fleet hospitals. This equipment is procured for Navy-Wide use by the Operating Forces and Shore Establishment including only passenger carrying vehicles for the Industrial and trailers, construction, earthmoving, maintenance, fire fighting, weight handling, amphibious and Fund activities.

Passenger Carrying Vehicles (P-1 Line Item 276 & 277)

(\$ In Thousands) FY 1987

\$10,925 \$10,068

addition, funding has been included to avoid uneconomical leasing through increased procurement as directed activities in compliance with the 97th Congress House of Representatives Conference Report No. 97-980. In by Department of Defense Appropriation Bill, 1984, Report Number 98-427, Title III. The FY 1987 program provides for the replacement of 735 vehicles leaving an additional 1,112 which will still exceed economic armored sedans for all Navy activities. Included are replacement vehicles for Navy Industrial Fund (NIF) This category provides for replacement and limited augmentation of buses, sedans, station wagons and This category does not include ambulances, which are addressed below. replacement criteria.

Trucks, Trailers, Construction and Maintenance Equipment (P-1 Line Items 278-286)

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(\$ In Thousands) FY 1987

FY 1988

\$110,106 \$88,733 This category includes trucks, trailers, generators, crushing, drilling, earth moving, fire fighting and weight handling equipment and ambulances for the protection and maintenance of Naval Shore Activities, Naval Construction Force, and various other Operational Forces worldwide. The funding requested is not for Component (ABFC) OPLAN (\$1.3 million), the Reserve Naval Construction Force (RNCF) (\$5.0 million), and the Assault Follow-on Echelon (AFOE) (\$4.4 million). exceeding the economic replacement criteria to an acceptable level by FY 1991. In addition, FY 1987 funds augmentation of the existing equipment inventory, but is an attempt to bring the quantity of equipment are required to continue the ongoing program for initial outfitting of the Advanced Base Functional

Amphibious Equipment (P-1 Line Item 287) and Combat Construction Support Equpment (P-1 Line Item 288)

FY 1988 (\$ In Thousands) FY 1987

\$51,374 \$42,283 primarily of relocatable facilities such as storage magazines, fuel storage tanks, multipurpose shelters and containers, and panel buildings in support of Naval Construction Force personnel. The FY 1987 program These funds provide specialized amphibious equipment which significantly enhances the Navy's capability to support Marine Corps amphibious operations through the ship-to-shore transfer of both dry and liquid cargo and is a key part of the Strategic Sealift Program. This equipment will be used by the Amphibious Construction Battalions in the Assault Echelon and Assault Follow-on Echelon phase of amphibious operations Allowance items and provides shelters for the protection of personnel against chemical agents at overseas to provide essential logistic support in advanced areas having little or no port capability. The FY 1987 sections, side loadable warping tugs, elevated causeways, roll on/roll off discharge facilities and other miscellaneous amphibious specialized equipment. In addition, FY 1988 funding is provided for the procurement of the Off-Shore Petroleum Discharge System. Combat Construction Support Equipment consists includes the outfitting of Naval Mobile Construction Battalions with containers for prepacking Table of program includes amphibious dry cargo transfer equipment including powered and non-powered causeway

Fleet Hospital (P-1 Line Item 297)

(\$ In Thousands FY 19

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\$110,548

\$82,723

equipment and other hospital support equipment, and will provide medical care for Navy and Marine Corps pesonnel during wartime. The FY 1987 program funds provide for one 500-bed Combat Zone Hospital and three 500-bed Communications Zone Hospitals in support of combat and communications zone theater bed requirements for Naval component commanders. The FY 1988 program provides for three 1,000 bed Communications Zone Combat Zone and Communication Zone Hospitals consist of shelters, transportation equipment, Hospitals

Other Equipment (P-1 Line Items 289-296)

(\$ in Thousands) FY 1987

\$14,771 \$23,278

Jtilities Support Equipment provides electric power and high quality steam for support to the fleet while in Mob1 le Construction projects and to replace ∜nvestment items within the Naval Material Establishment for Personnel overhauling fleet moorings is budgeted in the Fleet Moorings program. Pollution control equipment is for anti-submarine warfare and other fleet underwater construction programs. Procurement of components for Support equipment for administrative equipment, public works shop equipment, and specialized inspection compliance with Clean Air Act and Clean Water Act Amendments, various Environmental Protection Agency regulations and State implementation plans. Also included in this category is Other Civil Engineering Support Facilities. Ocean Facilities Construction equipment is associated with strategic deterrence. Various other programs are budgeted in Budget Activity 5 under the category of Other equipment. Collateral equipment provides equipment and furnishings to initially outfit Military port, and for emergency shore operations, serious utility system deficiencies and delayed military

BUDGET ACTIVITY 6: SUPPLY SUPPORT EQUIPMENT SUMMARY OF BUDGET PLAN (In Thousands)

PROPERTY SERVICES SERVICES SERVICES CONCRESS KATCHIN

		Budget Plan			
	(Amounts for Procurement Actions Programmed)	curement Actio	ons Programmed	ส	
	FY 1985 ACTUAL	FY 1986 ESTIMATE	FY 1987 ESTIMATE	FY 1988 ESTIMATE	JUSTIFICATION PAGE
Materials Handling Equipment and Systems	34,130	172,22	36,591	51,774	19
Support Equipment	9,320	2,288	9,023	9,321	52
Classified Programs	44,200	31,300	36,609	77,122	52
lotal Budget Plan	87,650	58,859	82,223	138,217	

11.11

Budget Activity 6 - Supply Support Equipment

(\$ In Thousands)
FY 1988 Estimate - \$138,217
FY 1987 Estimate - \$ 82,223
FY 1986 Estimate - \$ 58,859
FY 1985 Actual - \$ 87,650

COCCUPATION STREET

Purpose and Scope of Work

This budget activity finances the procurement of folklift trucks and other materials handling equipment used at Navy installations and aboard ships, automated materials handling systems; investment type support equipment; and reprographics equipment. In addition, financing for certain classified projects is included In this activity.

Justification of Funds

Materials Handling Equipment and Systems (P-1 Line Items Nos. 298-300)

(\$ In Thousands)
FY 1987

\$36,591 \$51,774

of ships and at shore activities. These overage equipments are more costly to maintain than to replace. As These funds are requested to procure Forklift trucks in FY 1987 and FY 1988 which are needed for the cyclical replacement of equipments which have exceeded their economic replacement criteria in use aboard the end of the FY 1987 funded delivery period, 39 percent of the ashore and 6 percent of the afloat inventory of Forklift trucks will be overage, based on a standard life expectancy of ll years.

phased equipment replacement program designed to reduce the significant level of overage warehouse tractors, cranes and other equipment in the inventory. The requested FY 1987 program decreases the level of overage for Other Materials Handling equipment, the FY 1987 request represents the eleventh increment of a equipment in the inventory to 36 percent ashore and 11 percent afloat.

These systems should produce sizeable savings as well as improve supply support responsiveness. The requested funds for the Automated Materials Handling Systems will provide for the installation of three Navy Integrated Storage Tracking and Retrieval Systems (NISTARS) in FY 1987 and FY 1988. NISTARS automates certain Warehouse functions and places the entire Warehouse operation under positive management control and automation. It improves the efficiency of labor and materials, as well as improves inventory

Other Supply Support Equipment (P-1 Line Items Nos. 301-302)

(\$ In Thousands) FY 1987

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\$9,321 \$9,023 The request for Other Supply Support equipment includes the procurement of shop and office equipment, reprographics, uninterrupted power service units, and enlisted dining facilities equipment.

Classified Programs (P-1 Line Items Nos. 303-304)

(\$ In Thousands) FY 1987

\$77,122 \$36,609 Details of these programs are of a higher classification. Justification is provided separately.

BUDGET ACTIVITY 7: PERSONNEL AND COMMAND SUPPORT EQUIPMENT SUMMARY OF BUDGET PLAN (In Thousands)

TOTAL POSSESSE PORTUGAL ASSOCIATE PROPERTY INTERPORT SERVING PORTUGAL PROPERTY INTERPORT INTERPORT INTERPORT

	Budget Plan Amounts for Procurement Actions Programmed	Budget Plan ocurement Acti	ons Programme	-DI	
	FY 1985 ACTUAL	FY 1986 ESTIMATE	FY 1987 ESTIMATE	FY 1988 ESTIMATE	JUSTIFICATION PAGE
Training Equipment	105,491	102,612	129,909	167,402	54
Command Support Equipment	125,482	255,981	181,448	215,014	55
Computer Acquisition Equip	227,412	163,496	221,279	242,402	55
Productivity Programs	12,990	4,393	23,659	9,879	56
Total Budget Plan	471,375	526,482	556,295	634,697	





Budget Activity 7: Personnel and Command Support Equipment

(\$ In Thousands)
FY 1988 Estimate - 634,697
FY 1987 Estimate - 556,295
FY 1986 Estimate - 526,482
FY 1985 Actual - 471,375

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Purpose and Scope of Work

This budget activity finances the procurement of Training Equipment, Command Support Equipment, Computer Equipment and Productivity Investment Programs.

Justification of Funds

Training Equipment (P-1 Line Items 305-312)

(\$ In Thousands FY 1987 FY 1988 \$129,909 \$167,402

Surface training devices will provide maintenance, operator, team, and refresher training for new combat systems/capabilities being introduced into the fleet. Requested funding supports a variety of cost effective devices including Surface Sonar Trainers, Ship System Trainers and Surface Combat System Trainers (FY 1987 \$75.1 million; FY 1988 \$104.1 million)

The submarine trainers will enhance capability to teach normal and emergency ship control procedures to improve skills and submerged ship handling proficiency; provide operator and team training on newly developed sonar systems; support land based training for submarine fire control/combat system attack center team training; provides simulated surfaced submarine piloting techniques; and provide a visual tactical target capability in submarine training attack centers to teach personnel to integrate information and make critical tactical decisions (FY 1987 \$38.8 million; FY 1988 \$47.5 million).

Funding is required to procure Training Support Equipment (TSE) consisting of minor training aids and devices to support the education and training programs to supply the fleet with effectively trained personnel (FY 1987 \$12.6 million; FY 1988 \$11.4 million).

with equivalent changes made to the fleet operational equipments which these devices simulate (FY 19876 \$3.3 Training Device Modifications provide cost-effective enhancements to update the existing inventory of training devices. The modifications help maintain the training value of devices and keep them compatible million; FY 1988 \$4.4 million).

Command Support Equipment (P-1 Line Items 313-321,

FY 1988 (\$ In Thousands) FY 1987

\$215,014 \$181,448 This funding provides for the procurement of items which are centrally managed including Command Support, Intelligence, Education, Medical Operating Forces, Naval Reserve, Oceanographic, Physical Security and Non-Centrally Managed equipment.

program is classified. Additional details on this procurement request are contained in the Intelligence Justification Books which are provided separately. is a part of the General Defense Intelligence Program (GDIP) requirements. Further information on this This request includes equipment needed for the Naval Intelligence Command and its field activities.

modern Funding is also requested to procure Medical Support equipment. Funds are requested for acquisition medical equipment in support of direct health care delivery. Funds are reqested to replace existing worn-out, obsolete assets and to provide for the acquisition of new technological developments for a health care delivery system.

Funds are requested for acquisition of equipment to support the following Physical Security programs: Nuclear Weapons Security, Sensitive Ordnance Security, and Remote Sensors and other intrusion detection devices required for physical security at Naval bases and sensitive installations.

Computer Acquisition Program (P-1 Lines Items 322-323)

(\$ In Thousands)

FY 1987

\$221,279

\$242,402

the culmination of several planned and developed ADP systems that are ready for deployment and introduction supply and logistics, maintenance, financial and personnel management, and health management, all of ⊌hich throughout the fleet. The work load that is performed directly supports such day-to-day efforts as fleet are currently either performed manually or in part by using old, obsolete, and unreliable data processing The Computer Acquisition Program (CAP) was established to optimize the procurement of general purpose Automated Data Processing Equipment (ADPE) Navy-Wide. The procurement of ADPE through the CAP represents support. The automation and upgrade capability to be funded by the CAP would lighten Fleet work load and modernize ADP directly improving overall Fleet readiness.

Productivity Programs (P-1 Line Items 325-326)

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(\$ In Thousands) FY 1987 \$23,659 \$9,879

technology as well as enabling growth in efficiency and the solution of emerging problems in operations and logistics. The technology factor has been credited with at least 40 percent of all productivity growth over funds requested for the Productivity Investment Fund are used to purchase, install and demonstrate improved general purpose equipment, tools and procedures. The objective of productivity investments is to apply capital investment in exchange for labor intensive and costly operations in government by investments in modern equipment, methods and labor saving devices. It also realizes a continuing stream of benefits through the reduction of recurring operating costs. Projects involve the replacement of old and outmoded the past five decades of domestic experience. Productivity investments directly address the unfunded backlog of compelling investment opportunities existing in the Navy. equipment and procedures to reduce inefficiency and maintenance costs. This frequently implants new

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(15.) BUDGET ACTIVITY 8: SPARES AND REPAIR PARTS
SUMMARY OF BUDGET PLAN
(In Thousands)

PROPERTY OF THE PROPERTY INCOMES INCOME.

	FY 1985 ACTUAL	FY 1986 ESTIMATE	FY 1987 ESTIMATE	FY 1988 ESTIMATE	JUSTIFICATION PAGE	
SPARES AND REPAIR PARTS INITIAL REPLENISHMENT	(227,049) (24,934)	233,474 26,556	292,094 31,798	378,982 30,428	58 58 58	
TOTAL BUDGET PLAN	(251,983) 1/	260,030	323,892	409,410		

1/ Funding was budgeted within the individual Budget Activities in FY 1985 and prior fiscal years.





Budget Activity 8 - Spares and Repair Parts (P-1 Line Item 358)

TOTAL CONTROL OF THE PROPERTY OF THE PROPERTY

(\$ In Thousands)
FY 1988 Estimate - \$409,410
FY 1987 Estimate - \$323,892
FY 1986 Estimate - \$260,030
FY 1985 Actual - (\$251,983)

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Purpose and Scope of Work

the individual Budget Activities (FY 1985 and prior). The funding requested provides for the procurement of spares and repair parts for all equipments requiring support by the Systems Commands prior to transitioning FY 1988). The FY 1987 program of \$323.9 million includes the procurement of \$.8 million of ships initial spares, \$166.3 million of communications and electronics initial spares, \$14.6 million of aviation initial into the Navy Supply System Material and is divided between Initial spares (\$292.1 million in FY 1987 and 1379.0 million in FY 1988) and Replenishment spares (\$31.8 million in FY 1987 and \$30.4 million in Budget Activity 8 provides for all Other Procurement, Navy (OPN) spares which were formally procured 13.0 million of personnel and command initial spares, \$9.6 million of aviation replenishment spares, and initial spares, \$24.9 million of aviation initial spares, \$168.7 million of ordnance initial spares, \$3.5 million of civil engineering initial spares, \$2.8 million of personnel and command initial spares, \$4.4 million of aviation replenishment spares. procurement of \$1.0 million of ships initial spares, \$178.2 million of communications and electronics spares, \$103.9 million of ordnance initial spares, \$3.6 million of civil engineering initial spares, 122.2 million of ordnance replenishment spares. The FY 1988 program of \$409.4 million includes the



COMPARISON OF FY 1986 PROGRAM REQUIREMENTS AS REFLECTED IN FY 1986 BUDGET WITH FY 1986 PROGRAM REQUIREMENTS AS SHOWN IN FY 1987 BUDGET

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SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

	Requirements Per FY 1986 Budget	Requirements Per FY 1987 Budget	Decrease (+)
Ships Support Equipment	922,957	907,548	-15,409
Communications & Electronics Equip	2,153,996	2,016,065	-137,931
Aviation Support Equipment	1,184,018	1,141,428	-42,590
Ordnance Support Equipment	1,396,511	1,241,480	-155,031
Civil Engineering Support Equip	221,558	229,390	+7,832
Supply Support Equipment	62,495	58,859	-3,636
Personnel & Command Support Equip	379,827	526,482	+146,655
Spares and Repair Parts	279,838	260,030	-19,808
Reimbursable Program	20,000	20,000	
Total Fiscal Year Program	6,651,200	6,431,282	-219,918

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EXPLANATION BY BUDGET ACTIVITY

1. Ships Support Equipment (\$-15.4 Million)

Specific Congressional reductions to Other Propellers and Shafts (\$1.0 million), Carrier Navigation Systems (\$3.2 million), Submarine Life Support System (\$6.9 million), and an undistributed Congressional reduction of \$16.3 million. In addition, adjustments include a specific Congressional increase of \$12.0 million for Sealift Support Equipment. The decrease of \$15.4 million resulted from the following:

. Communications and Electronic Equipment (\$-137.9 Million)

(\$.8 million), AN/BQQ-5 (\$1.7 million), Sonar Support Equipment (\$2.0 million), Submarine Advanced Combat System (\$2.8 million), ASW Operations Center (\$2.4 million), AN/SLQ-32 (\$5.0 million), NAVSTAR GPS Receivers (\$4.0 million), Automatic Carrier Landing Systems (\$9.2 million), Air Station Support Equipment (\$7.4 million), Microwave Landing System (\$7.4 million), FACSFAC (\$32.5 million), Naval Space Surveillance System (\$3.1 million), Shipboard HF Communications (\$8.6 million), and SATCOM Ship Terminals (\$.1 million). Additional adjustments resulted from specific Congressional increases of \$6.8 million for the AN/SQR-17 Acoustic Processor, \$11.8 million for the AN/BLD-1 and \$2.0 million for the 9th Battalion Communications and The decrease of \$137.9 million resulted from distribution of \$78.2 million for the Congressional undistributed reduction as well as specific Congressional reductions to the following: Electronics equipment.



EXPLANATION BY BUDGET ACTIVITY

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3. Aviation Support Equipment (\$-42.6 Million)

The decrease of \$42.6 million resulted from the following: Specific Congressional reductions to Machine Gun Ammunition (\$13.2 million), Practice Bombs (\$16.5 million), Airborne Expendable Countermeasures (\$9.1 million), BIGEYE Chemical Weapon (\$21.5 million) JATOS (\$1.0 million), GATOR (\$44.7 million), Aircraft Rearming Equipment (\$32.0 million), Catapults and Arresting Gear (\$1.4 million), and Miscellaneous Survival Equipment (\$.9 million). Other adjustments include Congressional increase of \$35.0 million for the Low Cost Sonobuoy, \$4.3 million for Mobile Van Support Units and \$50.0 million for Aviation War Reserve Munitions and below threshold adjustments of \$8.4 million.

4. Ordnance Support Equipment (\$-155.0 Million)

(\$.9 million), and QUICKSTRIKE (\$10.8 million). Further reductions of \$108.3 million were the result of the application of the Congressional undistributed and inflation reestimate reductions. In addition, this The decrease of \$155.0 million resulted from the following: Specific Congressional reductions to 16 Inch Gun Ammunition (\$5.0 million), 76mm Gun Ammunition (\$17.3 million), 0ther Ship Gun Ammunition (\$.7 million), Point Defense Support Equipment (\$32.0 million) Explosive Ordnance Disposal Equipment Budget Activity reflects a Congressional increase of \$20.0 million for War Reserve Munitions.

. Clv11 Engineering Support Equipment (\$+7.8 Million)

The increase of \$7.8 million resulted from a Congressional increase of \$11.0 million for the 9th Battalion equipment support, an appropriation transfer of \$3.7 million for Environmental Restoration and the application of the Congressional undistributed reduction \$6.9 million.

. Supply Support Equipment (\$-3.6 Million)

he decrease of \$3.6 million resulted from a Congressional reduction to Special Purpose Supply Systems.

. Personnel and Command Support Equipment (+146.7 Million)

The adjustment resulted from specific Congressional additions of \$44.2 million for Medical Support Equipment, \$14.0 million for Oceanographic Support Equipment and the transfer of \$125.3 million for Non-Centrally Managed Items. Additionally, the adjustment reflects the application of a specific Congressional reduction of \$3.9 million for Intelligence Support Equipment and the application of \$32.9 million for the Congressional undistributed reduction.



EXPLANATION BY BUDGET ACTIVITY

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8. Spares and Repair Parts (\$-19.8 Million)

The decrease of \$19.8 million resulted from the application of the Congressional undistributed reduction and inflation reestimate reductions.



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Comparison of FY 1986 Budget In FY 1986 Budget Shown in	Comparison of FY 1986 Financing as Reflected In FY 1986 Budget With FY 1986 Financing As Shown in FY 1987 Budget	ected Ng As	986 Financing as Reflected With FY 1986 Financing As	
	Financing Per FY 1986 Budget	Financing Per FY 1987 Budget	Increase (+) or Decrease (-)	
Program requirements (Total) Program Requirements (Service account) Program Requirements (Reimbursable)	6,651,200 6,601,200 50,000	6,431,282 6,377,630 50,000	-219,918 -223,570	ed state of
Less: Anticipated Reimbursements	900°09	20,000		ti di di
Reprograming from prior year budget plans				a ete et
unobligated balance available from prior year to finance new budget plans				era eta era
Transferred from other accounts		3,652	+3,652	
Add: Reduction pursuant to P. L. 97-377				
Unobligated balance available to finance subsequent year budget plans				AT PERSON
Transferred to other accounts				a de la cal
Appropriation	6,601,200	6,381,282	-219,918	,
				•

Explanation of Changes in Financing

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1. Program Reguirements (TOTAL)

The decrease reflects Congressional action to the FY 1986 President's Budget Request.

2. Program Requirements (Service Account)

The decrease reflects Congressional action to the FY 1986 President's Budget Request.

3. Transferred From Other Accounts

The increase reflects a transfer of funds appropriated in other accounts for Environmental Restoration.

4. Appropriation

The decrease reflects the difference between what was requested in January 1985 for the FY 1986 President's Budget, and the amount that was actually appropriated.





COMPARISON OF FY 1985 PROGRAM REQUIREMENTS AS REFLECTED IN FY 1986 BUDGET WITH FY 1985 PROGRAM REQUIREMENTS AS SHOWN IN FY 1987 BUDGET

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SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

	Total Program Requirements Per FY 1986 Budget	Program Requirements Per FY 1987 Budget	Increase (+) or Decrease (-)
Ships Support Equipment Communications & Electronics Equip Aviation Support Equipment Ordnance Support Equipment Civil Engineering Support Equip Supply Support Equipment Personnel & Command Support Equip Reimbursable Program	761,807 1,710,167 972,640 1,103,391 232,509 89,725 471,375	743,894 1,582,557 931,874 1,060,565 228,842 87,650 471,375 21,272	-17,913 -127,610 -40,766 -42,826 -3,667 -2,075
Total Fiscal Year Program	5,381,614	5,128,029	-253,585

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EXPLANATION BY BUDGET ACTIVITY

1. Ships Support Equipment (\$-17.9 Million)

The decrease of \$17.9 million results from a Congressional reduction for prior year contract and inflation savings (\$8.9 million) and a proposed inter-appropriation reprograming of \$9.0 million.

. Communications & Electronic Equip (\$127.6 Million)

The decrease of \$127.6 million results from a Congressional reduction for prior year contract and inflation savings (\$122.6 million) and a proposed inter-appropriation reprograming of \$5.0 million.

3. Aviation Support Equipment (\$-40.8 Million)

The decrease of \$40.8 million results from a Congressional reduction for prior year contract and inflation savings (\$20.6 million) and a proposed inter-appropriation reprograming of \$20.2 million.

EXPLANATION BY BUDGET ACTIVITY

Business (Substitution) | Business | Business | Business |



4. Ordnance Support Equipment (\$-42.8 Million)

The decrease of \$42.8 million results from a Congressional reduction for prior year contract and inflation savings.

5. Civil Engineering Support Equip (\$-3.7 Million)

The decrease of \$3.7 million results from a Congressional reduction for prior year contract and inflation savings.

6. Supply Suport Equipment (\$-2.1 Million)

The decrease of \$2.1 million results from a Congressional reduction for prior year contract and inflation savings.



Comparison of FY 1985 Financing As Reflected In FY 1986 Budget With FY 1985 Financing As Shown In FY 1987 Budget

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	Financing Per FY 1986 <u>Budget</u>	Financing Per FY 1987 Budget	Increase (+) or Decrease (-)
Program requirements (Total) Program Requirements (Service account) Program Requirements (Reimbursable)	5,381,614 5,341,614 40,000	5,128,029 5,106,757 21,272	-253,585 -234,857 -18,728
Less: Anticipated Reimbursements	40,000	272,15	-18,728
Reprogramming from prior year budget plans			
Unobligated balance available from prior year to finance new budget plans			
Transferred from other accounts			
Add: Unobligated balance available to finance subsequent year budget plans		234,957	+234,957
lransferred to other accounts			
Appropriation	5,341,614	5,341,614	0

Explanation of Changes in Financing

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1. Program Requirements (TOTAL).

The decrease reflects Congressional reductions for prior year savings and proposed inter-appropriation transfer.

2. Program Requirements (Service Account).

The decrease in program requirements represents the effect of Congressional reductions and funding proposed for inter-appropriation transfers.

3. Program Requirements (Reimbursable).

The decrease in the reimbursable program reflects actual orders received in FY 1985.

4. Anticipated Reimbursements.

The decrease is based on actual orders received in FY 1985.

Unobligated Balance Available from Prior Year to Finance New Budget Plans. 2

The increase represents balances set aside by the Congress to fund other requirements and proposed inter-appropriation transfers.

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